

APPENDIX

96162
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Air Quality in Ontario 1988



Ontario

Environment
Environnement

Jim Bradley, Minister/Ministre

APPENDIX

AIR QUALITY IN ONTARIO

1988

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INTRODUCTION

This Appendix is intended for use in conjunction with the Annual Report Air Quality in Ontario 1988.

For each pollutant, tables provide the location of stations and supply sample distribution information including means, maxima and the number of exceedances of the Ontario criteria.

The entire continuous (hourly) network is summarized in Appendix Table A-1 and Maps 1 and 2. The table gives station name, numerical identifier, and pollutants measured. Letter codes indicate whether data are telemetered (T) or chart-read (C). The column headings for pollutants are as follows:

SO ₂	sulphur dioxide
SP	suspended particles
CO	carbon monoxide
O ₃	ozone
NO ₂	nitrogen dioxide
NO	nitric oxide
NO _x	total nitrogen oxides
THC	total hydrocarbons
RHC	reactive (non-methane) hydrocarbons
TRS	total reduced sulphur
API	air pollution index
AQI	air quality index

Table A-2 gives detailed locations for the continuous monitoring network.

The Air Quality Index sites are shown in Map 3.

The particulate (daily) network is summarized in Appendix Table A-3 and Maps 4 and 5. The table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for pollutants are as follows:

TSP	total suspended particulate
Cd	cadmium
Cr	chromium
Cu	copper
Fe	iron
Mn	manganese
Ni	nickel
Pb	lead
V	vanadium
NO ₃ ⁻	nitrate
SO ₄ ²⁻	sulphate

Table A-4 gives detailed locations for the daily monitoring network. The statistical data and the 10-year trends for the various pollutants are provided in Tables A-5 through A-40.

ABBREVIATIONS

INS – insufficient data to compute relevant statistic.
YR – year that monitoring began.
TYP – survey type

TABLE A-1 THE CONTINUOUS (HOURLY) NETWORK (1988)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, HOURLY DATA

T = TELEMETRY C = CHART READ D = CALCULATED BY AQUIS YR = YEAR STATION BEGAN
 TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY

STATION NAME	ID	TYP	YR	S02	COH	CO	O3	NO2	NO	NOX	THC	RHC	CH4	TGS	API	AOI

HURON PARK	10001	A	77				T									
WINDSOR- WRIGHT	12007	A	84	T											T	
WINDSOR- UNIVERSITY	12008	A	69	T	T	T	T	T	T	T	T	T	T	T	T	T
WINDSOR- MYANODITTE	12013	A	76	T											T	T
WINDSOR- COLLEGE	12016	A	75	T			T								T	T

WINDSOR- HOWARD	12038	I	86			C										
WINDSOR- DOUGALL	12039	I	86			C										
WINDSOR- DARWIN	12047	I	84	T												
WINDSOR- MALDEN	12048	I	84	T												
WINDSOR- ALEXANDRINE	12049	I	86			C										

MERLIN	13021	A	77				T									
COURTRIGHT- HWY 40	14016	A	69	T												
SARNIA- CENTENNIAL	14064	A	76	T	T	T	T	T	T	T	T	T	T	T	T	T
MANDAMIN	14118	A	77				T	T	T	T	T	T	T	T	T	T
LONDON- FAIR GROUNDS	15001	A	70	T	T	T	T	T	T	T	T	T	T	T	T	T

LONGWOODS	15009	A	83			T										
PARKHILL	15013	A	83				T	T	T	T						
LONDON	15015	A	86	C												
LONDON	15016	A	86	C												
LONDON	15017	A	86	C												

TIVERTON- CON RD 2	18007	A	79	T			T								T	
SIMCOE	22071	A	75	T				T	T	T	T	T	T	T	T	
NANTICOKE- CHEAPSIDE	22086	I	77	T											T	
TOWNSEND	22094	I	86	T												
LONG POINT	22901	A	79	T				T	T	T	T	T	T	T	T	

NANTICOKE- WALPOLE	22904	I	79									T	T	T	T	
NANTICOKE- RAINHAM	22907	I	84	T	T							T	T	T	T	
KITCHENER	26029	A	76	T	T	T	T	T	T	T	T	T	T	T	T	
WATERLOO	26045	A	88	T	T										T	
THOROLD- NIAGARA	27042	I	78	T											T	

CHIPPAWA- NORTON	27051	I	79	T												
THOROLD- QUEEN	27052	I	83	T	T										T	
NIAGARA F- STANLEY	27055	I	83	T	T										T	
NIAGARA F- ALLENDALE	27056	A	83	T	T										T	
ST. CATHARINES	27067	A	87	T	T	T	T	T	T	T	T	T	T	T	T	T

GUELPH- EXHIBITION	28028	A	86	T	T			T	T	T	T	T	T	T	T	T
HAMILTON- ELGIN	29000	A	87	T	T	T	T	T	T	T	T	T	T	T	T	T
HAMILTON- HUNTER	29001	A	61			T									T	
HAMILTON- BARTON	29025	I	69	T	T										T	
HAMILTON- BEACH	29102	A	84	T	T	T	T	T	T	T	T	T	T	T	T	T

TABLE A-1 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, HOURLY DATA

STATION NAME		ID	TYP	YR	SO2	COH	CO	O3	NO2	NO	NOX	THC	RHC	CH4	TRS	API	AQI
<hr/>																	
HAMILTON- NASH	29105	A	85	T	T	T	T	T	T	T	T	T	T	T	T	T	T
HAMILTON- VICKERS	29114	A	85	T	T	T	T	T	T	T	T	T	T	T	T	T	T
HAMILTON- MAIN WEST	29118	A	85	T	T	T	T	T	T	T	T	T	T	T	T	T	T
TORONTO- MISSION	31049	A	72	T	T	T	T	T	T	T	T	T	T	T	T	T	T
TORONTO- BREDALBANE	31104	A	81	T	T	T	T	T	T	T	T	T	T	T	T	T	T
<hr/>																	
TORONTO- JUNCTION	31120	A	81	T	T	T	T	T	T	T	T	T	T	T	T	T	T
TORONTO- CN TOWER	31190	A	85	T	T	T	T	T	T	T	T	T	T	T	T	T	T
EAST YORK- LEASIDE	32010	A	88	T	T	T	T	T	T	T	T	T	T	T	T	T	T
SCARBORO- LAURENCE	33003	A	70	T	T	T	T	T	T	T	T	T	T	T	T	T	T
SCARBORO- REDLAND	33019	A	69	T	T	T	T	T	T	T	T	T	T	T	T	T	T
<hr/>																	
N YORK- SCIENCE CTR	34002	A	69	T	T	T	T	T	T	T	T	T	T	T	T	T	T
N YORK- CENTRAL	34020	A	88	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NORTH YORK- WEST	34025	A	88	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ETOBICOKE- ELMCREST	35003	A	69	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ETOBICOKE- QUEENSHAY	35005	I	68	T	T	T	T	T	T	T	T	T	T	T	T	T	T
<hr/>																	
ETOBICOKE- EVANS	35033	A	67	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ETOBICOKE- MOE LAB	35050	A	76	T	T	T	T	T	T	T	T	T	T	T	T	T	T
YORK	36030	A	88	T	T	T	T	T	T	T	T	T	T	T	T	T	T
BURLINGTON	44008	A	79	T	T	T	T	T	T	T	T	T	T	T	T	T	T
OAKVILLE	44015	A	80	T	T	T	T	T	T	T	T	T	T	T	T	T	T
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OSHANA- RITSON	45025	A	79	T	T	T	T	T	T	T	T	T	T	T	T	T	T
MIS'AUGA- QUEENSHAY	46110	A	77	T	T	T	T	T	T	T	T	T	T	T	T	T	T
MISSISSAUGA	46117	I	87	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ALLISTON	47035	A	81	T	T	T	T	T	T	T	T	T	T	T	T	T	T
BARRIE	47042	A	83	T	T	T	T	T	T	T	T	T	T	T	T	T	T
<hr/>																	
STOUFFVILLE	48002	A	74	T	T	T	T	T	T	T	T	T	T	T	T	T	T
DORSET	49010	A	81	C	T	T	C	D	C	C	T	T	T	T	T	T	T
OTTAWA- McDONALD GDN	51001	A	71	T	T	T	T	T	T	T	T	T	T	T	T	T	T
KINGSTON	52020	A	88	T	T	T	T	T	T	T	T	T	T	T	T	T	T
CORNWALL- MEMORIAL P	56051	A	70	T	T	T	T	T	T	T	T	T	T	T	T	T	T
<hr/>																	
CORNWALL- 435 W 2ND	56068	I	75	T	T	T	T	T	T	T	T	T	T	T	T	T	T
CORNWALL	56071	I	84	T	T	T	T	T	T	T	T	T	T	T	T	T	T
PETERBORO- CITY HALL	59006	A	76	T	T	T	T	T	T	T	T	T	T	T	T	T	T
BALMERTON	61014	I	82	T	T	T	T	T	T	T	T	T	T	T	T	T	T
DRYDEN	61027	I	84	T	T	T	T	T	T	T	T	T	T	T	T	T	T
<hr/>																	
F FRANCES- CHURCH	62030	I	76	T	T	T	T	T	T	T	T	T	T	T	T	T	T
F FRANCES- COLONIZ/N	62032	I	76	T	T	T	T	T	T	T	T	T	T	T	T	T	T
THUNDER B- ALGOMA	63022	A	78	T	T	T	T	T	T	T	T	T	T	T	T	T	T
MARATHON- PENINSULA	63034	I	82	T	T	T	T	T	T	T	T	T	T	T	T	T	T
THUNDER B- MONTREAL	63046	I	76	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T = TELEMETRY C = CHART READ D = CALCULATED BY AQUIS YR = YEAR STATION BEGAN
 TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY

TABLE A-1 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, HOURLY DATA

T = TELEMETRY C = CHART READ D = CALCULATED BY AQUIS YR = YEAR STATION BEGAN
 TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY

STATION NAME	ID	TYP	YR	SO2	COH	CO	O3	NO2	NO	NOX	THC	RHC	CH4	TRS	API	AQI
RED ROCK	63084	I	81	.	.	.	.	.	.	.	.	.	.	.	.	.
TERRACE BAY	63090	I	81	.	.	.	.	.	.	.	.	.	.	.	.	.
HAWKEYE LAKE	63100	A	83	.	.	.	C	.	.	.	.	.	.	.	.	.
THUNDER B- JAMES ST	63200	A	86	T	T	T	T	T	T	T	.	.	.	T	T	T
S.S. MARIE- WM. S	71068	A	87	T	T	T	T	T	D	T	.	.	.	T	T	T
WAVA- HOSPITAL	71069	A	86	T	.	.	.	.	.	.	.	.	.	.	.	.
WAVA- MOTOR INN	71070	A	86	T	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH ROCK FALLS	72084	I	86	.	.	.	.	.	.	.	.	.	.	.	.	.
HOYLE/TIMMINS	72089	I	87	T	.	.	.	.	.	.	.	.	.	.	.	.
NORTH BAY	75010	A	79	T	T	T	T	T	D	T	.	.	.	.	.	T
SKEAD	77012	A	52	T	.	.	.	.	.	.	.	.	.	.	.	.
HANMER	77013	A	73	T	.	.	.	.	.	.	.	.	.	.	.	.
SIDBURY- ASH	77016	A	69	T	T	.	T	.	.	.	.	.	.	.	.	.
CONISTON- GOVERNMENT	77028	A	74	T	.	.	.	.	.	.	.	.	.	.	.	.
GARSON- FALCONBRIDGE	77065	A	76	T	.	.	.	.	.	.	.	.	.	.	.	.
NEW SIDBURY- KENNEDY	77075	A	76	T	.	.	.	.	.	.	.	.	.	.	.	.
SIDBURY- LONG LAKE	77096	A	80	T	.	.	.	.	.	.	.	.	.	.	.	.
MIXKOLA	77201	A	82	T	.	.	.	.	.	.	.	.	.	.	.	.
SIDBURY- SCIENCE N	77203	A	84	T	T	T	T	T	D	T	.	.	.	T	T	T
RAYSIDE- ST LAURENT	77206	A	85	T	.	.	.	.	.	.	.	.	.	.	.	.
COPPER CLIFF	77218	I	87	T	.	.	.	.	.	.	.	.	.	.	.	.

TABLE A-2 LOCATIONS OF CONTINUOUS (HOURLY) STATIONS (1988)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, HOURLY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
COLLEGE OF AGRIC TECH HURON PARK	10001	A	77	43:17	81:30	5
WRIGHT/WATER ST WINDSOR	12007	A	84	42:17	83:06	4
467 UNIVERSITY AV W WINDSOR	12008	A	69	42:19	83:03	8
FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	12013	A	76	42:19	83:00	6
COLLEGE/SOUTH ST WINDSOR	12016	A	75	42:18	83:04	4
2885 HOWARD AV WINDSOR	12038	I	86	38:41	82:54	1
DOUGALL/E.C. ROW W WINDSOR	12039	I	86	42:17	83:01	5
DORPIN PLAZA, DOUGALL AV WINDSOR	12047	I	84	42:17	83:02	3
HALDEN RD (S LAURIER DR) WINDSOR	12048	A	84	42:13	83:04	3
663 ALEXANDRINE WINDSOR	12049	I	86	42:17	83:01	1
MOE WATER PUMP STN, MIDDLE RD, MERLIN HWY/40 (OPP LAMBTON GS) COURTRIGHT	13021	A	77	42:15	82:13	3
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	A	76	42:59	82:24	3
M.T.C. SHED, SARNIA	14118	A	77	42:57	82:12	4
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	A	70	42:59	81:13	4
LONGHOODS CONSERVATION AUTHORITY	15009	A	83	42:53	81:29	4
PUC BLDG, PARKHILL	15013	A	83	45:10	81:41	5
951 COMMISSIONERS RD E LONDON	15015	A	86	42:58	81:13	4
801 COMMISSIONERS RD E LONDON	15016	A	86	42:57	81:13	4
8 MOUNTSFIELD DR LONDON	15017	A	86	42:58	81:15	4
CONCESSION RD 2 LOT A TIVERTON	18007	A	79	44:18	81:35	4
EXPERIMENTAL FARM SIMCOE	22071	A	75	42:51	80:16	4
CHEAPSIDE RD/3 KM S OF HWY 3) NANTICOKE	22086	I	77	42:52	80:00	5
TOUNSLINE RD/CON 13 TOWNSEND	22094	I	86	42:54	80:09	4
PROVINCIAL PARK LONG POINT	22901	A	79	42:35	80:23	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	I	79	42:50	80:02	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	I	84	42:49	80:05	4
EDNA/FREDERICK STS KITCHENER	26029	A	76	43:27	80:28	5
WEBER/UNIVERSITY WATERLOO	26045	A	88	43:29	80:31	4
NIAGARA FALLS RD/ONTARIO ST THOROLD	27042	I	78	43:06	79:12	5
HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	27051	I	79	43:04	79:04	16
185 QUEEN ST S THOROLD	27052	I	83	43:07	79:12	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	I	83	43:08	79:05	4
ALLENDALE AV NIAGARA FALLS	27056	A	83	43:05	79:05	5
ARGYLE CRESCENT ST CATHARINES	27067	A	87	43:10	79:14	4
EXHIBITION ST/CLARK ST GUELPH	28028	A	86	43:33	80:16	4
ELGIN/KELLY HAMILTON	29000	A	87	43:15	79:52	4
HUGHSON/HUNTER HAMILTON	29001	A	61	43:15	79:52	9
BARTON/AVENTHUR HAMILTON	29025	I	69	43:16	79:51	4
467 BEACH BLVD HAMILTON	29102	A	84	43:17	79:47	4

TABLE A-2 (Cont.)

ONTARIO ATR MONITORING NETWORK AS OF 31-DEC-88, HOURLY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
NASH RD/KENTLEY DR HAMILTON	29105	A	85	43:14	79:46	4
VICKERS RD/EAST 8TH ST HAMILTON	29114	A	85	43:14	79:52	3
MAIN ST/W HWY 403 HAMILTON	29118	A	85	43:15	79:54	3
MISSION, 381 YONGE ST TORONTO	31049	A	72	43:40	79:23	4
26 BREADALBANE TORONTO	31104	A	81	43:40	79:23	15
PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	31120	A	81	43:40	79:27	9
CN TOWER, 301 FRONT ST W TORONTO	31190	A	85	43:39	79:23	444
LEASIDE HYDRO STATION EAST YORK	32010	A	88	43:42	79:21	5
LAWRENCE/KENNEDY SCARBORO	33003	A	70	43:45	79:16	4
REDLAND CR (SCARB BLUFFS) SCARBORO	33019	A	69	43:43	79:14	1
SC CTR, 770 DON MILLS RD NORTH YORK	34002	A	69	43:43	79:20	17
HENDON AVE (YONGE ST/FINCH AVE) NORTH YORK	34026	A	88	43:47	79:25	5
35 EDGAR AVE. NORTH YORK	34035	A	88	43:43	79:32	5
ELMCREST RD (CENTENNIAL PK) ETOBICOKE	35003	A	69	43:39	79:35	4
QUEENSWAY HOSPITAL ETOBICOKE	35005	I	68	43:37	79:34	9
EVANS/ARNOLD AV ETOBICOKE	35033	A	67	43:37	79:31	3
125 RESOURCES RD (HOE LAB) ETOBICOKE	35050	A	76	43:43	79:32	18
CLEARVIEW HEIGHTS ETOBICOKE	36030	A	88	43:42	79:29	5
HWY2/NORTH SHORE BLVD E BURLINGTON	44008	A	79	43:19	79:48	17
BRONTE RD/AUBURN CRES OAKVILLE	44015	A	80	43:24	79:44	5
PS, RITSON RD/OLIVE AV OSHAWA	45025	A	79	43:53	78:51	5
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	A	77	43:34	79:37	5
HEADON PK, APPLE LAKE COUNTRY CLUB, MIS'A	46117	I	87	43:31	79:36	5
509 VICTORIA ST E ALLSTON	47035	A	81	44:09	79:51	4
ARMOURY BLDG, PARK/PARKSIDE ST BARTIE	47042	A	83	44:23	79:42	12
HWY47E OF HWY48 STOUFFVILLE	48002	A	74	43:58	79:16	5
HWY 117/PAINT LAKE RD DORSET	49010	A	81	45:13	78:56	3
MCD GDPS, RIDEAU/MURTEBURG ST OTTAWA	51001	A	71	45:26	75:41	4
NAPIER ST, KINGSTON	52020	A	88	44:14	76:31	5
MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	56051	A	70	45:01	74:44	4
SCHOOL, 435 SECOND ST W CORNWALL	56068	I	75	45:01	74:44	6
ST PETER'S SCHOOL CORNWALL	56071	I	84	44:59	75:27	4
CITY HALL, 500 GEORGE ST PETERBORO	59006	A	76	44:19	78:19	18
SEWAGE TREATMENT PLT PETERBORO	61014	I	82	51:03	93:44	6
35 VAN HORNE AV DRYDEN	61027	I	84	49:47	92:50	15
PORTAGE/CHURCH ST FORT FRANCES	62030	I	76	48:37	93:24	4
CEMETERY, COLONIZATION RD W FORT FRANCES	62032	I	76	48:37	93:25	5
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	A	78	48:26	89:13	22
PENINSULA BLDG MARATHON	63034	I	82	48:43	86:23	12
CAN-CAR, MONTREAL ST THUNDER BAY	63046	I	76	48:21	89:18	3

TABLE A-2 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-83, HOURLY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
RECREATION CENTRE RED ROCK	63084	I	81	48:57	88:15	7
ST MARTIN SCHOOL TERRACE BAY	63090	I	81	48:47	87:06	8
HAWKETE LAKE	63100	A	83	48:40	89:29	4
MTC 615 JAMES ST S THUNDER BAY	63200	A	86	48:23	89:17	3
WM. MERRIFIELD SCHOOL SAULT STE MARIE	71068	A	87	46:32	84:21	3
LADY DUNN HOSPITAL WAWA	71069	A	86	48:00	84:46	3
WAWA MOTOR INN WAWA	71070	A	86	47:59	84:47	3
ROSS ROAD SMOOTH ROCK FALLS	72084	A	86	49:17	81:37	2
R.R.#1 LOT 11 CONC. 1 MATHESON TOWNSHIP	72089	I	87	48:33	81:04	3
OPP STN NORTH BAY	75010	A	79	46:19	79:27	4
SKEAD	77012	A	52	46:39	80:46	5
WATER TANK, ASH ST SUDBURY	77013	A	73	46:39	80:57	5
GOVERNMENT RD/EDWARD ST CONISTON	77016	A	69	46:30	81:00	3
FALCONBRIDGE RD GARSON	77028	A	74	46:29	80:51	5
	77065	A	76	46:34	80:51	5
KENNEDY ST NEW SUDBURY	77075	A	76	46:31	80:57	5
LONG LAKE RD (VILLA LOYOLA) SUDBURY	77096	A	80	46:24	81:01	4
MIKOLA (J HAMILTON SCHOOL) WALDEN	77201	A	82	46:25	81:07	5
SCIENCE NORTH SUDBURY	77203	A	84	46:28	80:59	10
ST LAURENT/REGIONAL RD RAYSIDE	77206	A	85	46:36	81:06	4
LOT 2-PLAN M-1025 (R. DOW POOL) COPPER CL	77218	I	87	46:28	81:04	4

TABLE A-3 THE PARTICULATE (DAILY) NETWORK (1988)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY
W = WEEKDAY ONLY S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4
<hr/>														
GOERICH	10015	A	76	6	-	-	-	-	-	-	-	-	-	-
ST MARKS	11001	A	78	6	-	-	-	-	-	-	-	-	-	-
WINDSOR- CITY HALL	12002	A	69	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- RIVERSIDE	12005	A	78	6	6	6	6	6	6	6	6	6	6	6
LA SALLE	12006	A	85	6	-	-	-	-	-	-	-	-	-	-
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WINDSOR- WRIGHT	12007	A	64	6	-	-	-	6	-	-	6	-	-	-
WINDSOR- UNIVERSITY	12008	A	70	1	1	1	1	1	1	1	1	1	1	1
LITTLE RIVER	12009	A	71	6	-	-	-	-	-	-	6	-	-	-
WINDSOR- MANNING	12010	A	71	6	6	6	6	6	6	6	6	6	-	-
WINDSOR- DROUILLARD	12011	A	88	6	6	6	6	6	6	6	6	-	-	-
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WINDSOR- WYANDOTTE	12013	A	71	6	6	6	6	6	6	6	6	6	-	-
WINDSOR- PROSPECT	12015	A	71	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- COLLEGE	12016	A	75	6	-	-	-	6	-	-	-	-	-	-
WINDSOR- GEORGE	12036	A	77	6	-	-	-	-	-	-	-	-	-	-
WINDSOR- CALIFORNIA	12037	A	77	6	-	-	-	-	-	-	-	-	-	-
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WINDSOR- HOWARD	12038	I	77	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- DOUGALL 1	12039	I	78	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- DOUGALL 2	12047	A	85	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- ALEXANDRIE	12049	A	85	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- CAPITOL	12051	A	86	6	6	6	6	6	6	6	6	6	6	6
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AHERSTBURG	12053	A	81	6	6	6	6	6	6	6	6	6	-	-
CHATHAM	13003	A	69	6	6	6	6	6	6	6	6	6	-	-
SARNIA- MITTON	14001	A	62	6	-	-	-	-	-	-	-	-	-	-
COURTRIGHT- HWY 40	14016	A	69	1	1	1	1	1	1	1	1	1	1	1
CORUNNA- R.R. #1	14030	A	78	6	6	6	6	6	6	6	6	6	-	-
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MOORETOWN	14031	A	78	6	6	6	6	6	6	6	6	6	-	-
SARNIA- POINT EDWARD	14054	A	66	6	-	-	-	-	-	-	-	-	-	-
CORUNNA- ST CLAIR	14059	A	76	6	-	-	-	-	-	-	-	-	-	-
SARNIA- CENTENNIAL	14064	A	76	6	6	6	6	6	6	6	6	6	6	6
SARNIA- DAVID	14151	A	79	6	-	-	-	-	-	-	-	-	-	-
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SARNIA	14152	I	87	3	-	-	-	3	3	3	3	-	-	-
SARNIA	14153	I	87	3	-	-	-	3	3	3	3	-	-	-
LONDON- FAIR GROUNDS	15001	A	70	6	6	6	6	6	6	6	6	6	6	6
ST THOMAS- ALEXANDRIA	15006	I	75	6	-	-	-	-	-	-	-	-	-	-
ST THOMAS- EDELMARE	15008	I	81	6	-	-	-	-	-	-	6	-	-	-
<hr/>														
LONGWOODS	15009	A	83	3	3	3	3	3	3	3	3	3	3	3
LONDON	15014	A	86	6	6	6	6	6	6	6	6	6	6	6
LONDON	15015	A	86	6	6	6	6	6	6	6	6	6	6	6
LONDON	15016	A	86	6	6	6	6	6	6	6	6	6	6	6
LONDON	15017	A	86	6	6	6	6	6	6	6	6	6	6	6

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY
 W = WEEKDAY ONLY S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4
15016- BACKUP	15116	A	87	6	6	6	6	6	6	6	6	6	-	-
BEACHVILLE	17006	I	74	6	6	6	6	6	6	6	6	6	-	-
INGERSOLL	17020	I	81	6	6	6	6	6	6	6	6	6	-	-
EMBRIO	17021	I	83	3	-	-	-	-	-	-	-	-	-	-
JARVIS- JAMES	22087	A	80	6	-	-	-	-	-	-	-	-	-	-
PORT DOVER	22090	A	83	6	-	-	-	-	-	-	-	-	-	-
JARVIS- RAINHAM	22092	I	85	6	-	-	-	-	-	-	-	-	-	-
HAGERSVILLE	22095	I	88	3	-	-	-	-	-	-	-	-	-	-
HAGERSVILLE	22096	I	88	3	-	-	-	-	-	-	-	-	-	-
NANTICOKE- WALPOLE	22904	I	84	6	-	-	-	-	-	-	-	-	6	6
NANTICOKE- RAINHAM	22907	I	84	6	6	6	6	6	6	6	6	6	-	-
NANTICOKE- RO	22941	I	79	6	-	-	-	-	-	-	-	-	-	-
NANTICOKE- OS	22964	I	84	6	-	-	-	-	-	-	-	-	-	-
NANTICOKE- HWY 6	22965	I	84	6	-	-	-	-	-	-	-	-	-	-
KITCHENER	26029	A	76	6	6	6	6	6	6	6	6	6	6	6
ALLISTON- VIOLET HILL	26048	I	87	6	-	-	-	-	-	-	-	-	-	-
ST CATHARINES- KING	27008	A	87	6	6	6	6	6	6	6	6	6	6	6
WELLAND	27045	I	78	6	-	-	-	-	-	-	-	-	-	-
PORT COLBORNE- DAVIS	27047	I	79	6	-	-	-	-	-	6	-	-	-	-
NIAGARA F- VICTORIA	27050	I	79	6	-	-	-	-	-	-	-	-	-	-
CHIPPAWA- NORTON	27051	I	79	6	-	-	-	-	-	-	-	-	-	-
THOROLD- QUEEN	27052	I	82	6	-	-	-	-	-	-	-	-	-	-
NIAGARA F- STANLEY	27055	I	82	6	-	-	-	-	-	-	-	-	-	-
NIAGARA F- ALLENDALE	27056	A	83	6	-	-	-	-	-	-	-	-	6	6
GUELPH- HANLON	28027	I	81	6	-	-	-	-	-	-	-	-	-	-
GUELPH- EXHIBITION	28028	A	86	6	-	-	-	-	-	-	6	-	6	6
HAMILTON- ELGIN	29000	A	88	1	-	-	-	-	-	-	-	-	-	-
HAMILTON- KENILWORTH	29009	A	69	6	-	-	-	-	-	6	6	6	6	6
HAMILTON- BURLINGTON	29011	I	73	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- WELLINGTON	29012	A	69	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- CHATHAM	29017	A	69	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- MENTWORTH	29025	I	69	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- HUGHSON	29067	A	73	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- CUMBERLAND	29087	A	79	6	-	-	-	-	-	-	-	-	6	6
HAMILTON- BARTON	29089	A	80	6	-	-	-	-	-	-	-	-	-	-
HAMILTON- BAY	29098	A	83	6	6	6	6	6	6	6	6	6	6	6
HAMILTON- BEACH	29102	A	85	1	6	6	6	6	6	6	6	6	6	6
GREENSVILLE	29111	I	86	6	-	-	-	-	-	-	-	-	6	6
GREENSVILLE	29112	I	87	6	-	-	-	-	-	-	-	-	-	-
HAMILTON- GERTRUDE	29113	A	86	6	-	-	-	-	-	-	-	-	-	-

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY
 W = WEEKDAY ONLY S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cu	Fe	Mn	Ni	Pb	V	N03	S04
HAMILTON- VICKERS	29114	A	85	6	6	6	6	6	6	6	6	6	6
HAMILTON- MAIN W	29118	A	85	6	-	-	-	-	-	-	-	-	-
HAMILTON- MORLEY	29119	A	86	6	-	-	-	-	-	-	-	-	-
HAMILTON- DUNDURN	29122	A	87	6	-	-	-	-	-	-	-	-	-
HAMILTON- EVEN	29130	A	87	6	-	-	-	-	-	-	-	-	-
HAMILTON- ALBION S	29135	A	87	6	-	-	-	-	-	-	-	-	-
TORONTO- BRUCE PS	31045	I	86	1	1	1	1	1	1	1	1	1	1
TORONTO- MOSLEY	31058	I	73	1	1	1	1	1	1	1	1	1	1
TORONTO	31065	I	87	1	1	1	1	1	1	1	1	1	1
TORONTO- HAMILTON	31082	I	74	1	-	-	-	-	-	-	-	-	-
TORONTO- TECUMSETH	31085	I	79	1	1	1	1	1	1	1	1	1	1
TORONTO- BREADALBANE	31104	A	81	1	1	1	1	1	1	1	1	1	1
TORONTO- JUNCTION	31120	A	81	3	3	3	3	3	3	3	3	3	3
TORONTO- BATHURST	31181	I	83	1	1	1	1	1	1	1	1	1	1
TORONTO- FORT YORK	31183	I	87	1	1	1	1	1	1	1	1	1	1
EAST YORK- LEASIDE	32010	A	87	3	-	-	-	-	-	-	-	3	3
SCARBORO- LAURENCE	33003	A	70	3	-	-	-	-	-	-	-	3	3
NORTH YORK- WEST	34025	A	87	3	-	-	-	-	-	-	-	3	3
ETOBICOKE- ELMCREST	35003	A	69	3	-	-	-	-	-	-	-	3	3
ETOBICOKE- EVANS	35033	A	69	3	-	-	-	-	-	-	-	3	3
ETOBICOKE- MOL LAB	35051	A	80	1	-	-	-	-	-	-	-	-	-
OAKVILLE- SEWAGE PL	44005	I	86	W	W	W	W	W	W	W	W	W	W
BURLINGTON	44008	A	79	6	-	-	-	-	-	-	-	6	6
OAKVILLE	44015	I	80	3	-	-	-	-	-	-	-	3	3
PICKERING- FIRE HALL	45001	I	70	1	-	-	-	-	-	-	-	-	-
AJAX- HOSPITAL	45007	I	75	1	-	-	-	-	-	-	-	-	-
OSHAWA- RITSON	45025	A	79	3	-	-	-	-	-	-	-	3	3
AJAX	45080	I	87	3	3	3	3	3	3	3	3	3	3
AJAX	45081	I	87	3	3	3	3	3	3	3	3	3	3
BRAMBLEA	46033	A	69	6	-	-	-	-	-	-	-	6	6
MIS'AUGA- 2414 DIXIE	46041	I	72	1	-	-	-	-	-	-	-	1	1
MIS'AUGA- 2365 DIXIE	46045	I	73	1	-	-	-	-	-	-	-	1	1
MIS'AUGA- 2360 DIXIE	46046	I	73	1	-	-	-	-	-	-	-	1	1
MIS'AUGA- QUEENSWAY	46110	A	78	3	-	-	-	-	-	-	-	3	3
ORILLIA	47019	A	77	6	-	-	-	-	-	-	-	6	6
BARRIE	47042	A	82	3	-	-	-	-	-	-	-	3	3
STOUFFVILLE	48002	A	80	3	-	-	-	-	-	-	-	3	3
KESWICK- BROWN	48140	I	85	W	W	W	W	W	W	W	W	W	W
KESWICK- INGHAM	48141	I	85	W	W	W	W	W	W	W	W	W	W
KESWICK- CALDERARO	48142	I	85	W	W	W	W	W	W	W	W	W	W

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-89, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS TYP = A: AMBIENT SURVEY; I: SOURCE SPECIFIC SURVEY
 W = WEEKDAY ONLY S = SEASONAL

STATION NAME	ID	TYP	YR	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	N03	S04
DORSET - HUY 117	49011	A	87	1	-	-	-	-	-	-	-	-	-	-
PORT HOPE - SHUTER	58027	I	75	S	-	-	-	-	-	-	-	-	S	S
PORT HOPE - MARSH	58041	I	84	S	-	-	-	-	-	-	-	-	S	S
PORT HOPE - QUEEN	58042	I	84	S	-	-	-	-	-	-	-	-	S	S
RED LAKE-YONGE ST.	61015	I	88	6	-	-	-	-	-	-	6	-	-	-
DRYDEN	61037	I	87	6	-	-	-	-	-	-	-	-	-	-
ATTIKOKAN	62013	A	76	6	-	-	-	-	-	-	-	-	-	-
FORT FRANCES	62030	I	76	6	-	-	-	-	-	-	-	-	-	-
F. FRANCES- COLONIZ'N	62032	A	76	6	-	-	-	-	-	-	-	-	-	-
THUNDER B- ARCHIBALD	63005	A	70	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- DAWSON	63012	A	70	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- ALGONA	63022	A	69	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- MONTREAL	63046	I	78	6	-	-	-	-	-	-	-	-	-	-
THUNDER B- WILLIAM	63052	A	80	6	-	-	-	-	-	-	-	-	-	-
THUNDER B- JAMES ST	63200	A	86	6	-	-	-	-	-	-	6	-	6	6
THUNDER BAY- S.T.P *	63301	I	75	6	-	-	-	-	-	-	-	-	-	-
THUNDER BAY- T.B.T *	63303	I	75	6	-	-	-	-	-	-	-	-	-	-
S.S.MARIE- BONNEY	71042	I	75	1	1	1	1	1	1	1	1	1	1	1
S.S.MARIE- QUEEN	71049	A	75	6	6	6	6	6	6	6	6	6	6	6
BLIND RIVER	71065	A	82	6	-	-	-	-	-	-	-	-	-	-
S.S.MARIE- WM. S	71068	A	87	6	6	6	6	6	6	6	6	6	6	6
S.S.MARIE	71071	I	86	6	-	-	6	6	6	6	6	6	6	6
S.S.MARIE	71072	I	86	6	6	6	6	6	6	6	6	6	6	6
TIMMINS	72077	I	84	6	6	6	6	6	6	6	6	6	6	6
HEARST- LEBLANC	72080	I	87	6	-	-	-	-	-	-	-	-	-	-
NORTH BAY	75010	A	79	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- ASH	77016	A	69	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- LISGAR	77026	A	72	6	6	6	6	6	6	6	6	6	6	6
ESPANOLA- SPRUCE	77029	A	77	6	-	-	-	-	-	-	-	-	-	-
COPPER CLIFF- NICKEL	77070	I	76	6	6	6	6	6	6	6	6	6	6	6
ESPANOLA	77214	I	87	1	-	-	-	-	-	-	-	-	-	-
ESPANOLA	77215	I	87	2	-	-	-	-	-	-	-	-	-	-

* operated by Thunder Bay Terminals Ltd.

TABLE A-4 LOCATIONS OF PARTICULATE (DAILY) STATIONS (1988)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
PUC BLDG. 64 WEST ST. GODERICH	10015	A	74	43:45	81:43	6
309 THOMAS ST. ST. MARYS	11001	A	78	43:15	81:09	30
CITY HALL, 244 WINDSOR V. WINDSOR	12002	A	69	42:19	83:02	15
7730 RIVERSIDE DR E. WINDSOR	12005	A	78	42:20	82:57	10
BEACH LANE/HMT 18 LA SALLE	12006	A	83	42:14	83:06	4
WRIGHT/WATER ST. WINDSOR	12007	A	84	42:17	83:06	4
467 UNIVERSITY AV W. WINDSOR	12008	A	70	42:19	83:03	8
9725 RIVERSIDE DR E. LITTLE RIVER	12009	A	71	42:30	82:56	2
SEWAGE STN, HANCKING RD. WINDSOR	12010	A	71	42:30	82:52	1
DROUILLARD RD/RICHMOND ST. WINDSOR	12011	A	88	42:19	83:00	1
FILTRAT PLT, 3645 WYANDOTTE ST E. WINDSOR	12013	A	71	42:19	83:00	6
SEWAGE STN, HWY 18/PROSPECT WINDSOR	12015	A	71	42:17	83:05	5
COLLEGE/SOUTH ST. WINDSOR	12016	A	75	42:18	83:04	4
1802 GEORGE AV. WINDSOR	12036	A	77	42:19	82:59	5
3225 CALIFORNIA ST. WINDSOR	12037	A	77	42:16	83:02	4
2885 HOWARD AV. WINDSOR	12038	I	77	42:17	83:01	1
DOUGALL/E.C. RD. W. WINDSOR	12039	I	78	42:17	83:01	5
DORVIN PLAZA, DOUGALL AV. WINDSOR	12047	A	85	42:17	83:02	3
643 ALEXANDRINE WINDSOR	12049	A	85	42:17	83:01	1
604 CAPITOL/REMINOTON WINDSOR	12051	A	86	42:17	83:01	1
415 FRONT ST. AMHERSTBURG	12053	A	81	42:08	83:07	14
POST OFFICE, 10 CENTRE ST. CHATHAM	13003	A	69	42:24	82:11	12
GENERAL HOSPITAL, 220 HITTON ST. SARNIA	14001	A	62	42:58	82:24	15
HWY40 (OPP LAMBTON GS) COURTRIGHT	14016	A	69	42:48	82:29	4
R.R. #1 (W OF HOUSE) CORUNNA	14030	A	78	42:53	82:17	1
R.R. #1 (W OF BARN) MOORETOWN	14031	A	78	42:52	82:18	1
SARNIA YACHT CLUB, POINT EDWARD	14054	A	66	43:00	82:25	5
ST CLAIR BLVD/HWY 40 CORUNNA	14059	A	76	42:53	82:27	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	A	76	42:59	82:24	3
DAVID/FRONT ST. SARNIA	14151	A	79	42:59	82:24	4
SARNIA POLICE STATION (ROOF)	14152	I	87	42:59	82:24	5
704 MARA ST., POINT EDWARD - SARNIA	14153	I	87	42:59	82:24	9
WYN FAIR GROUNDS, KING/RECTORY LONDON	15001	A	70	42:59	81:13	4
16 ALEXANDRIA ST. ST THOMAS	15006	I	75	42:47	81:11	6
EDGEWARE RD (NNW VARTA PLT) ST THOMAS	15008	I	81	42:48	81:09	2
LONGWOODS CONSERVATION AUTHORITY	15009	A	83	42:53	81:29	2
POND HILLS RD/DEVERON CRES LONDON	15014	A	86	42:58	81:12	4
951 COMMISSIONERS RD E LONDON	15015	A	86	42:58	81:13	4
801 COMMISSIONERS RD E LONDON	15016	A	86	42:57	81:13	4
8 MOUNTSFIELD DR LONDON	15017	A	86	42:58	81:15	4

TABLE A-4 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
801 COMMISSIONERS RD E LONDON	15116	A	87	42:57	81:13	4
ST ANTHONY'S SS HWY 2 BEACHVILLE	17006	I	74	43:05	80:50	6
HWY 2 RR 2 (J SPIEL PROP) INGERSOLL	17020	I	81	43:04	80:51	2
OXFORD CTRY RD 6, HESSTON FARM EMBRO	17021	I	83	43:06	80:52	1
JARVIS COMMUNITY CENTRE, JAMES ST JARVIS	22087	A	80	42:53	80:07	4
ST GEORGE/ALMA PORT DOVER	22090	A	83	42:47	80:13	5
RAINHAM RD/SANDUSK RD JARVIS	22092	I	85	42:49	80:02	4
HWY 6 (SEMGTON PROP) HAGERSVILLE	22095	-	88	42:36	80:02	1
ALMA/LAIDLAW ST HAGERSVILLE	22096	-	88	42:37	80:03	1
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	I	-	42:50	80:02	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	I	84	42:49	80:05	4
NANTICOKE RD/MALPOLE CON 2 NANTICOKE	22961	I	79	42:49	80:04	3
N 2 KM NANTICOKE GS NANTICOKE	22964	I	84	42:50	80:05	4
HWY 6/NORFOLK CON 2 JARVIS	22965	I	84	42:49	80:09	2
EDNA/FREDERICK STS KITCHENER	26029	A	76	43:27	80:28	5
MONO-MULMAR SCHOOL, HWY89 VIOLET HILL	26048	I	87	44:06	80:06	5
71 KING ST ST CATHARINES	27008	A	87	43:10	79:15	12
337 ALBERTA/DEVON ST WELLAND	27045	I	78	42:58	79:15	1
DAVIS/FRAZER PORT COLBORNE	27047	I	79	42:53	79:15	3
4057 VICTORIA AV NIAGARA FALLS	27050	I	79	43:07	79:04	4
HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	27051	I	79	43:04	79:04	16
185 QUEEN ST S THOROLD	27052	I	82	43:07	79:12	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	I	82	43:08	79:05	4
ALLENDALE AV NIAGARA FALLS	27056	A	83	43:05	79:05	5
HANLON EXPY/SPEED RIVER QUELPH	28027	I	81	43:31	80:16	6
EXHIBITION ST/CLARK ST QUELPH	28028	A	86	43:33	80:16	4
ELGIN/KELLY HAMILTON	29000	A	88	43:15	79:52	4
KENILWORTH HAMILTON	29009	A	69	43:15	79:49	6
BURLINGTON/LEEDS HAMILTON	29011	I	73	43:16	79:49	5
BURLINGTON/WELLINGTON HAMILTON	29012	A	69	43:16	79:51	7
CHATHAM/FRID HAMILTON	29017	A	69	43:15	79:54	5
BARTON/HENTWORTH HAMILTON	29025	I	69	43:16	79:51	4
450 HUGHSON ST N HAMILTON	29067	A	73	43:16	79:52	5
405 CUMBERLAND AV HAMILTON	29087	A	79	43:15	79:50	4
BARTON/NASH RD HAMILTON	29089	A	80	43:14	79:46	6
BAY/MAIN ST HAMILTON	29098	A	83	43:15	79:53	23
467 BEACH BLVD HAMILTON	29102	A	85	43:17	79:47	4
OFFIELD RD/HWY 5 GREENSVILLE	29111	I	86	43:18	79:59	1
HARVEST RD/QUEST GREENSVILLE	29112	I	87	43:17	79:59	1
GERTRUDE/DEPPE HAMILTON	29113	I	86	43:15	79:49	4

TABLE A-4 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31 DEC-88, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
VICKERS RD/EAST 18TH ST HAMILTON	29114	A	85	43:14	79:52	3
MAIN ST/4 HWY 403 HAMILTON	29118	A	85	43:15	79:54	3
MORLEY ST/PARKDALE AV HAMILTON	29119	I	86	43:15	79:47	4
DUNDURN/YORK HAMILTON	29122	A	87	43:16	79:53	10
EMEN RD/WHITNEY AV HAMILTON	29130	A	87	43:15	79:56	1
ALBRIGHT RD/MT ALBION RD HAMILTON	29135	A	87	43:13	79:48	8
BRUCE PS, 51 LARCHMOUNT AV TORONTO	31045	I	86	43:40	79:20	6
MOSLEY/LESLIE STS TORONTO	31058	I	73	43:40	79:20	5
A.R. CLARKE CO., 633 EASTERN AVE., TORONTO	31065	I	87	43:40	79:20	12
WORKS DEPT, 138 HAMILTON AV TORONTO	31082	I	74	43:40	79:21	5
TECUMSETH/NIAGARA ST TORONTO	31085	I	79	43:38	79:24	5
26 BREAEDALBANE TORONTO	31104	A	81	43:40	79:23	15
PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	31120	A	81	43:39	79:27	9
60 BATHURST ST TORONTO	31181	I	83	43:39	79:24	6
FORT YORK, TORONTO	31183	I	87	43:38	79:24	3
LEASIDE HYDRO STATION EAST YORK	32010	A	87	43:42	79:21	1
LAURENCE/KENNEDY SCARBORO	33003	A	70	43:45	79:16	4
35 EDGAR AVE NORTH YORK	34025	A	87	43:43	79:32	5
ELMCREST RD (CENTENNIAL PK) ETOBICOKE	35003	A	69	43:39	79:35	4
EVANS/ARNOLD AV ETOBICOKE	35033	A	69	43:37	79:31	3
RESOURCES RD (MOL LAB) ETOBICOKE	35051	A	80	43:43	79:33	11
2687 LAKESHORE RD E OAKVILLE	44005	I	86	43:29	79:38	10
HWY 2/NORTH SHORE BLVD E BURLINGTON	44008	A	79	43:19	79:48	17
BRONTE RD/ABBURN CRES OAKVILLE	44015	I	80	43:24	79:44	5
FIRE HALL, BAYLY/BROCK PICKERING	45001	I	70	43:50	79:04	1
AAJAX-PICKERING HOSP AJAX	45007	I	75	43:50	79:01	15
PS, RITSON RD/OLIVE AV OSHANA	45025	A	79	43:53	78:51	5
FINLEY RD, ANIMAL HOSPITAL AJAX	45080	I	87	43:50	79:02	1
65 HARWOOD AVE, AAJAX WORKS DEPT, AAJAX	45081	I	87	43:50	79:02	1
FIRE HALL, BRAMALEA RD BRAMALEA	46033	A	69	43:42	79:42	3
2414 DIXIE RD MISSISSAUGA	46041	I	72	43:36	79:35	5
2365 DIXIE RD MISSISSAUGA	46045	I	73	43:36	79:35	5
2360 DIXIE RD MISSISSAUGA	46046	I	73	43:36	79:35	12
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	A	78	43:34	79:37	5
POST OFFICE, 17-25 PETER ST S ORILLIA	47019	A	77	44:34	79:87	10
ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	47042	A	82	44:23	79:42	12
HWY477E OF HWY48 STOUFFVILLE	48002	A	80	43:58	79:16	5
CON 5 (BROWN PROP) KESWICK	48140	I	85	44:13	79:25	1
RR2 (INGHAM PROP) KESWICK	48141	I	85	44:13	79:25	1
RR2 (CALDERARO PROP) KESWICK	48142	I	85	44:13	79:26	1

TABLE A-4 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-88, DAILY DATA

LOCATION	ID	TYP	YR	LAT	LONG	ELEV (M)
HWY117 PAINT LAKE ROAD DORSET	49011	A	87	45:13	78:56	1
51 SHUTER ST PORT HOPE	58027	I	75	43:57	78:17	4
FLIT PLT, MARSH ST PORT HOPE	58041	I	84	43:57	78:18	1
CAN TIRE, QUEEN ST PORT HOPE	58042	I	84	43:57	78:18	1
18 YOUNG STREET - RED LAKE	61015	I	88	51:06	81:49	1
35 VAN HORNE AVENUE (ROOF) DRIDEN	61027	I	87	49:47	92:50	15
WEATHER STN ATTOKAN	62013	A	76	48:45	91:36	1
PORTAGE/CHURCH ST FORT FRANCES	62030	I	72	48:37	93:24	3
CENETERY, COLONIZATION RD W FORT FRANCES	62032	A	76	48:37	93:25	5
HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	63005	A	70	48:23	89:15	29
DAMSON CT/ALGOMA ST N THUNDER BAY	63012	A	70	48:27	89:12	9
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	A	69	48:26	89:13	22
CAN-CAR, MONTREAL ST THUNDER BAY	63046	I	78	48:21	89:18	3
TRANSIT MAINT BD, WILLIAM RD THUNDER BAY	63052	A	80	48:25	89:14	9
MTC 615 JAMES ST S THUNDER BAY	63200	A	86	48:23	89:17	3
SEWAGE TREATMENT PLANT, THUNDER BAY	63301	I	75	48:24	89:14	5
THUNDER BAY TERMINALS #3 THUNDER BAY	63303	I	75	48:23	89:13	7
PUMPHOUSE, BONNEY ST SAULT STE MARIE	71042	I	75	46:31	84:23	1
LAND OFFICE, QUEEN ST SAULT STE MARIE	71049	A	75	46:31	84:20	6
HOSPITAL, LAKESHORE AV BLIND RIVER	71065	A	82	46:11	82:58	12
WM. MERRIFIELD SCHOOL SAULT STE MARIE	71068	A	87	46:32	84:21	3
BOUNDARY RD/BENNET SAULT STE MARIE	71071	I	86	46:31	84:16	2
FIRST AV/SECOND LINE SAULT STE MARIE	71072	I	86	46:32	84:22	2
MINISTRY OF HEALTH BLDG TIMMINS	72077	A	84	48:28	81:20	5
CUSTOM SAWMILL RD (LEBLANC PROP) HEARST	72080	I	87	49:41	83:39	5
OPP STN NORTH BAY	75010	A	79	46:19	79:27	4
WATER TANK, ASH ST SUDBURY	77016	A	69	46:30	81:00	3
19 LISGAR ST SUDBURY	77026	A	72	46:30	81:00	14
POST OFFICE, SPRUCE/BARBOR ST ESPANOLA	77029	A	77	46:16	81:46	6
PUMPHOUSE, NICKEL ST COPPER CLIFF	77070	I	76	46:28	81:04	5
EXECUTEL HOTEL (FRONT) ESPANOLA	77214	I	87	46:16	81:46	2
EXECUTEL HOTEL (BACK) ESPANOLA	77215	I	87	46:16	81:46	2

* operated by Thunder Bay Terminals Ltd.

TABLE A-5 SULPHUR DIOXIDE (SO₂) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH														
YEAR - 1988		POLLUTANT - SULPHUR DIOXIDE			UNIT = PARTS/MILLION						SEP 19, 1989			
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES			ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA					
			10	30	50		70	90	99	1HR	24HR	1HR	24HR	1YR

12007	WRIGHT/WATER ST WINDSOR	363	.000	.000	.001	.007	.017	.041	.008	0.13	0.04	0	0	0
12008	467 UNIVERSITY AV W WINDSOR	364	.000	.000	.004	.009	.022	.049	.011	0.13	0.05	0	0	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	362	.000	.000	.000	.004	.012	.035	.006	0.18	0.03	0	0	0
12016	COLLEGE/SOUTH ST WINDSOR	365	.000	.000	.001	.006	.017	.045	.008	0.14	0.03	0	0	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	348	.000	.000	.000	.004	.010	.033	.006	0.16	0.03	0	0	0
12048	HALDEN RD (S LAURIER DR) WINDSOR	360	.000	.000	.000	.000	.009	.030	.004	0.10	0.02	0	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	352	.000	.000	.000	.002	.010	.052	.006	0.17	0.06	0	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	363	.000	.000	.000	.000	.019	.111	.009	0.24	0.11	0	1	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	354	.000	.000	.000	.002	.008	.019	.004	0.08	0.02	0	0	0
15015	951 COMMISSIONERS RD E LONDON	359	.000	.000	.000	.000	.002	.015	.001	0.08	0.01	0	0	0
15016	801 COMMISSIONERS RD E LONDON	364	.000	.000	.000	.000	.007	.019	.003	0.10	0.02	0	0	0
15017	8 HOUNTSFIELD DR LONDON	360	.000	.000	.000	.000	.003	.015	.002	0.10	0.01	0	0	0
18007	CONCESSION RD 2 LOT A TIVERTON	352	.000	.000	.000	.000	.007	.018	.003	0.07	0.02	0	0	0
22071	EXPERIMENTAL FARM SINCDE	345	.000	.000	.000	.003	.009	.025	.005	0.29	0.04	1	0	0
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	364	.000	.000	.000	.004	.011	.051	.006	0.36	0.04	1	0	0

TABLE A-5 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1988		POLLUTANT - SULPHUR DIOXIDE				UNIT = PARTS/MILLION						SEP 19, 1989		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES				ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA		
					50	70	90	99		1HR	24HR	1HR	24HR	
22094	TOMLINE RD/CON 13 TOMSEND	352	.000	.000	.000	.000	.003	.020	.002	0.21	0.03	0	0	0
22901	PROVINCIAL PARK LONG POINT	346	.000	.000	.000	.000	.005	.023	.002	0.10	0.02	0	0	0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	359	.000	.000	.000	.000	.009	.043	.004	0.15	0.05	0	0	0
26029	EDNA/FREDERICK STS KITCHENER	364	.000	.000	.000	.000	.007	.018	.003	0.04	0.02	0	0	0
26045	WEBER/UNIVERSITY ST WATERLOO	214	.000	.000	.000	.000	.007	.017	.003	0.07	0.01	0	0	INS
27042	NIAGARA FALLS RD/ONTARIO ST THOROLD	321	.000	.000	.000	.004	.019	.031	.007	0.09	0.04	0	0	0
27051	HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA	136	.000	.000	.002	.006	.011	.028	.007	0.12	0.03	0	0	INS
27052	185 QUEEN ST S THOROLD	342	.000	.000	.004	.010	.059	.175	.021	0.29	0.13	5	3	1
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	339	.000	.000	.001	.008	.025	.073	.011	0.18	0.10	0	0	0
27056	ALLENDALE AV NIAGARA FALLS	360	.000	.000	.000	.003	.010	.029	.005	0.09	0.03	0	0	0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	350	.000	.000	.005	.010	.020	.042	.011	0.11	0.05	0	0	0
28028	EXHIBITION ST/CLARK ST GUELPH	357	.000	.000	.000	.002	.008	.023	.004	0.09	0.03	0	0	0
29000	ELGIN/KELLY ST HAMILTON	360	.000	.000	.000	.005	.016	.054	.008	0.18	0.05	0	0	0
29025	BARTON/MENTWORTH HAMILTON	361	.000	.000	.001	.007	.019	.056	.009	0.15	0.04	0	0	0
29102	467 BEACH BLVD HAMILTON	337	.000	.000	.000	.009	.030	.083	.012	0.17	0.07	0	0	0

TABLE A-5 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988	POLLUTANT - SULPHUR DIOXIDE		UNIT = PARTS/MILLION						RUN DATE SEP 19, 1989			
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES 50 70 90			ARITH- METIC MEAN	MAXIMUM 1HR 24HR		NO. OF TIMES ABOVE CRITERIA 1HR 24HR 1YR	
29105	NASH RD/KENTLEY DR HAMILTON	357	.000	.000	.000	.003	.009	.029	.005	0.11	0.03	0 0 0
29114	VICKERS RD/EAST 18TH ST HAMILTON	357	.000	.000	.000	.005	.014	.043	.007	0.12	0.04	0 0 0
29118	MAIN ST W/HWY 403 HAMILTON	279	.000	.000	.000	.004	.010	.028	.005	0.11	0.03	0 0 0
31104	26 BREADALBANE TORONTO	364	.000	.000	.000	.004	.015	.055	.007	0.16	0.03	0 0 0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	362	.000	.000	.000	.005	.015	.059	.006	0.24	0.08	0 0 0
31190	CN TOWER, 301 FRONT ST W TORONTO	285	.000	.000	.000	.000	.009	.034	.004	0.19	0.03	0 0 0
32010	LEASIDE HYDRO STATION EAST YORK	198	.000	.000	.000	.000	.000	.014	.001	0.08	0.01	0 0 INS
33003	LAWRENCE/KENNEDY SCARBORO	362	.000	.000	.000	.006	.016	.048	.008	0.11	0.04	0 0 0
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	335	.000	.000	.000	.000	.005	.027	.002	0.09	0.04	0 0 0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	340	.000	.000	.000	.000	.005	.029	.002	0.20	0.06	0 0 0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	209	.000	.000	.000	.003	.009	.034	.005	0.10	0.04	0 0 INS
34025	35 EDGAR AVE NORTH YORK WEST	210	.000	.000	.003	.007	.016	.042	.009	0.11	0.04	0 0 INS
35003	ELMGREST RD (CENTENNIAL PK) ETOBICOKE	296	.000	.000	.000	.003	.011	.035	.006	0.18	0.03	0 0 0
35005	QUEENSWAY HOSPITAL ETOBICOKE	360	.000	.000	.000	.002	.009	.029	.005	0.09	0.04	0 0 0
35033	EVANS/ARNOLD AV ETOBICOKE	346	.000	.000	.001	.006	.015	.038	.008	0.16	0.04	0 0 0

TABLE A-5 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - SULPHUR DIOXIDE		UNIT = PARTS/MILLION							RUN DATE SEP 19, 1989		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR 24HR	
35050	125 RESOURCES RD (MOE LAB) ETOBICOKE	326	.000	.000	.000	.000	.006	.019	.003	0.09	0.03	0	0
36030	CLEARVIEW HTGS/KEELE ST YORK	214	.000	.000	.000	.005	.011	.033	.006	0.14	0.03	0	INS
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	364	.000	.000	.000	.001	.008	.029	.004	0.11	0.03	0	0
44015	BRONTE RD/WOBUEN CRES OAKVILLE	365	.000	.000	.000	.000	.010	.039	.005	0.10	0.04	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	364	.000	.000	.000	.005	.010	.026	.006	0.05	0.03	0	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	337	.000	.000	.000	.000	.008	.029	.004	0.28	0.03	1	0
46117	MEADOW PK, APPLE LANE CLUB MISSISSAUGA	366	.000	.000	.000	.005	.014	.037	.007	0.14	0.04	0	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	364	.000	.000	.000	.000	.002	.014	.001	0.08	0.02	0	0
48002	HWY47/E OF HWY48 STOUFFVILLE	354	.000	.000	.000	.000	.007	.020	.003	0.09	0.03	0	0
49010	HWY 117/PAINT LAKE RD DORSET	309	.000	.000	.000	.000	.000	.013	.001	0.14	0.01	0	0
51001	MCD GDS, RIDEAU/MURTEBURG ST OTTAWA	364	.000	.000	.000	.000	.004	.020	.002	0.09	0.03	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	364	.000	.000	.000	.000	.014	.067	.006	0.23	0.05	0	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	357	.000	.000	.000	.000	.005	.018	.002	0.06	0.02	0	0
61014	SEWAGE TREATMENT PLT BALMERTOWN	353	.000	.000	.000	.000	.001	.206	.008	0.69	0.12	57	2
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	351	.000	.000	.000	.000	.005	.010	.002	0.06	0.01	0	0

TABLE A-5 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - SULPHUR DIOXIDE										UNIT = PARTS/MILLION	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES			99	ARITH- METIC MEAN		MAXIMUM 1HR	NO. OF TIMES ABOVE CRITERIA 1HR 24HR		RUN DATE SEP 19, 1989	1YR
			10	30	50	70							
63200	MTC 615 JAMES ST S THUNDER BAY	357	.000	.000	.000	.000	.007	.000	0.04	0.01	0	0	0
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	362	.000	.000	.000	.000	.008	.004	0.13	0.03	0	0	0
71069	LADY DUNN HOSPITAL WAWA	182	.000	.000	.000	.000	.007	.007	0.71	0.09	16	0	INS
71070	WAWA MOTOR INN WAWA	357	.000	.000	.000	.000	.000	.004	.007	0.74	0.13	17	2
72089	RR 1 LOT 11 CONC 1 MATHESON TWP HOYLE	356	.000	.000	.000	.000	.013	.008	0.78	0.11	11	1	0
75010	OPP STN NORTH BAY	357	.000	.000	.000	.000	.005	.002	0.13	0.04	0	0	0
77012	SKEAD	361	.000	.000	.000	.000	.012	.008	0.67	0.07	18	0	0
77013	HANMER	361	.000	.000	.000	.000	.007	.005	0.83	0.09	6	0	0
77016	WATER TANK, ASH ST SUDBURY	364	.000	.000	.000	.000	.014	.007	0.49	0.09	17	0	0
77028	GOVERNMENT RD/EDWARD ST CONISTON	364	.000	.000	.000	.000	.006	.005	0.50	0.07	8	0	0
77065	FALCONBRIDGE RD GARSON	360	.000	.000	.000	.000	.010	.007	0.38	0.06	9	0	0
77075	KENNEDY ST NEW SUDBURY	357	.000	.000	.000	.000	.013	.007	0.54	0.08	12	0	0
77096	LONG LAKE RD (VILLA LOYOLA) SUDBURY	364	.000	.000	.000	.000	.010	.007	0.70	0.12	22	1	0
77201	MIKKOLA (J HAMILTON SCHOOL) WALDEN	359	.000	.000	.000	.000	.007	.006	0.66	0.14	23	1	0
77203	SCIENCE NORTH SUDBURY	360	.000	.000	.000	.003	.012	.009	0.80	0.10	30	0	0

TABLE A-5 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH														
YEAR - 1988	POLLUTANT - SULPHUR DIOXIDE			UNIT = PARTS/MILLION						RUN DATE				
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES			99	ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA		
					50	70	90			1HR	24HR	1HR	24HR	1YR
77206	ST LAURENT/REGIONAL RD RAYSIDE	364	.000	.000	.000	.000	.005	.051	.003	0.54	0.06	9	0	0
77218	LOT 2-PLAN M-1025 COPPER CLIFF	258	.000	.000	.000	.002	.039	.324	.019	1.24	0.31	85	6	0

TABLE A-6 10-YEAR TREND FOR SO₂

City	Annual Mean (ppm)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
BURLINGTON	.008	.005	.007	.005	.005	.005	.004	.004	.004	.004
CORNWALL	.013	.012	.010	.010	.008	.009	.009	.008	.006	.006
ETOBICOKE	.010	.008	.008	.006	.006	.007	.007	.005	.005	.006
HAMILTON	.017	.013	.010	.014	.014	.015	.009	.008	.007	.008
KITCHENER	.006	.005	.003	.003	.002	.003	.002	.003	.004	.003
LONDON	.007	.005	.009	.004	.003	.004	.002	.003	.003	.004
LONG POINT	.001	.006	.004	.003	.002	.002	.002	.002	.002	.002
MISSISSAUGA	.006	.005	.006	.006	.006	.006	.006	.007	.009	.004
NIAGARA FALLS	.011	.007	.004	.003	.003	.004	.003	.003	.002	.005
NORTH BAY	.003	.004	.002	.003	.002	.003	.002	.002	.002	.002
NORTH YORK	.009	.010	.010	.012	.006	.009	.008	.005	.002	.002
OAKVILLE	.009	.007	.005	.007	.005	.007	.006	.005	.003	.005
OSHAWA	.010	.007	.004	.004	.003	.005	.003	.003	.004	.006
OTTAWA	.006	.004	.005	.004	.002	.002	.002	.002	.001	.002
PETERBORO	.003	.004	.003	.003	.002	.003	.002	.002	.002	.002
SARNIA	.017	.013	.014	.012	.010	.009	.011	.008	.007	.009
SCARBORO	.005	.008	.007	.004	.003	.004	.003	.003	.004	.008
SIMCOE	.009	.007	.004	.004	.003	.004	.005	.003	.003	.005
ST CATHARINES	.007	.004	.007	.005	.005	.005	.006	.005	.010	.011
STOUFFVILLE	.004	.003	.003	.003	.005	.005	.004	.002	.002	.003
SUDBURY *	.012	.016	.010	.010	.009	.010	.010	.008	.009	.010
THUNDER BAY	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000
TIVERTON	.001	.003	.003	.001	.003	.007	.002	.001	.001	.003
TORONTO	.008	.007	.008	.006	.004	.006	.004	.004	.004	.007
WINDSOR	.013	.011	.012	.009	.008	.007	.007	.008	.008	.011

* change of location from Ash Street (77016) to Science Centre (77203)

TABLE A-7 SUSPENDED PARTICLES (SP) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT							RUN DATE		
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES	10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 24HR 1YR
12008	467 UNIVERSITY AV W WINDSOR	315	0.03	0.19	0.30	0.46	0.82	1.73	0.44	4.4	1.4	11	0
12016	COLLEGE/SOUTH ST WINDSOR	354	0.07	0.18	0.26	0.39	0.68	1.52	0.39	4.4	1.2	2	0
12038	2885 HOWARD AV WINDSOR	345	0.08	0.23	0.38	0.57	1.03	2.24	0.54	4.5	2.0	23	1
12039	DOUGLAS ST/E.C. ROW W WINDSOR	340	0.11	0.22	0.34	0.48	0.81	1.76	0.47	4.1	1.6	8	0
12049	643 ALEXANDRINE WINDSOR	323	0.09	0.21	0.33	0.47	0.83	1.84	0.47	4.7	1.9	9	0
14064	CENTENNIAL PK./FRONT ST/CN TRACKS SARNIA	338	0.00	0.06	0.15	0.26	0.46	0.95	0.24	3.6	1.0	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	345	0.00	0.07	0.16	0.27	0.46	1.01	0.25	3.0	0.9	0	0
15009	LONGWOODS CONSERVATION AUTHORITY	301	0.00	0.00	0.04	0.09	0.20	0.39	0.11	1.6	0.4	0	0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	91	0.00	0.00	0.05	0.14	0.29	0.65	0.14	2.1	0.6	0	INS
26029	EDNA/FREDERICK STS KITCHENER	178	0.05	0.16	0.28	0.49	1.01	2.27	0.48	4.9	1.8	11	INS
26045	WEBER/UNIVERSITY ST WATERLOO	205	0.00	0.05	0.12	0.20	0.37	0.83	0.20	1.7	0.8	0	INS
27052	185 QUEEN ST S THOROLD	288	0.02	0.13	0.24	0.38	0.64	1.22	0.35	3.9	1.0	0	0
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	288	0.03	0.16	0.28	0.44	0.77	1.45	0.40	5.0	1.2	5	0
27056	ALLENDALE AV NIAGARA FALLS	362	0.00	0.13	0.25	0.39	0.59	0.90	0.32	1.6	0.9	0	0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	354	0.00	0.07	0.15	0.24	0.42	0.92	0.23	2.3	0.8	0	0

TABLE A-7 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - SOILING INDEX			UNIT = CONS/1000 FT							RUN DATE SEP 19, 1989	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10 30 50 70 90 99					ARITH- METIC MEAN	MAXIMUM 1HR 24HR	NO. OF TIMES ABOVE CRITERIA 24HR 1YR			
28028	EXHIBITION ST/CLARK ST GUELPH	317	0.00	0.05	0.11	0.19	0.36	0.78	0.20	2.5	0.8	0	0
29000	ELGIN/KELLY ST HAMILTON	361	0.06	0.19	0.30	0.46	0.89	1.91	0.46	4.5	2.2	20	0
29001	HUGHSON/HUNTER HAMILTON	346	0.09	0.23	0.37	0.56	1.04	2.18	0.54	3.6	2.3	24	1
29025	BARTON/WENTWORTH HAMILTON	361	0.07	0.22	0.36	0.55	0.96	1.83	0.51	3.0	1.6	19	1
29102	467 BEACH BLVD HAMILTON	210	0.00	0.08	0.20	0.35	0.64	1.22	0.31	2.7	1.0	0	INS
29105	NASH RD/KENTLEY DR HAMILTON	343	0.03	0.11	0.19	0.30	0.54	1.27	0.31	3.2	1.4	2	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	348	0.03	0.10	0.18	0.28	0.50	1.31	0.29	3.3	1.2	4	0
29118	MAIN ST W/HWY 403 HAMILTON	319	0.02	0.11	0.22	0.37	0.80	1.67	0.38	2.7	1.4	9	0
31049	MISSION, 381 YONGE ST TORONTO	287	0.12	0.28	0.45	0.70	1.20	2.23	0.63	4.3	1.8	26	1
31104	26 BREADALBANE TORONTO	356	0.04	0.15	0.23	0.35	0.59	1.18	0.34	2.9	1.0	0	0
31120	PERTH/RUSKINI JUNCTION TRIANGLE) TORONTO	360	0.03	0.16	0.26	0.39	0.69	1.55	0.38	3.0	1.3	2	0
31190	CN TOWER, 301 FRONT ST W TORONTO	213	0.00	0.00	0.05	0.10	0.23	0.48	0.12	1.2	0.4	0	INS
32010	LEASIDE HYDRO STATION EAST YORK	205	0.00	0.11	0.22	0.39	0.75	1.67	0.37	3.8	1.2	4	INS
33003	LAWRENCE/KENNEDY SCARBORO	356	0.00	0.15	0.26	0.41	0.70	1.43	0.37	2.9	1.4	2	0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	212	0.01	0.09	0.21	0.38	0.67	1.34	0.34	2.2	1.2	2	INS

TABLE A-7 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT							RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS		PERCENTILES				ARITH- METIC MEAN		MAXIMUM 1HR 24HR	NO. OF TIMES ABOVE CRITERIA	
		10	30	50	70	90	99				24HR	1YR
34025	35 EDGAR AVE NORTH YORK WEST	208	0.00	0.00	0.04	0.15	0.49	1.46	0.20	2.8 1.4	5	INS
35003	ELMGREST RD (CENTENNIAL PK) ETOBICOKE	191	0.00	0.17	0.33	0.54	0.97	2.33	0.49	4.3 1.6	14	INS
35033	EVANS/ARNOLD AV ETOBICOKE	331	0.00	0.14	0.29	0.48	0.86	1.79	0.43	3.4 1.6	7	0
36030	CLEARVIEW HTGS/KEELE ST YORK	212	0.07	0.18	0.28	0.42	0.79	2.03	0.43	3.2 1.4	5	INS
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	211	0.00	0.14	0.28	0.50	0.90	1.75	0.44	3.5 1.4	7	INS
44015	BRONTE RD/NOBURN CRES OAKVILLE	288	0.02	0.13	0.24	0.40	0.76	1.63	0.39	3.5 1.3	6	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	360	0.00	0.04	0.17	0.35	0.69	1.41	0.31	3.2 1.2	4	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	198	0.02	0.10	0.18	0.30	0.61	1.49	0.32	3.8 0.9	0	INS
51001	HCD GDS, RIDEAU/HURTEBURG ST OTTAWA	362	0.00	0.02	0.13	0.24	0.49	1.11	0.23	3.7 1.1	1	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	356	0.00	0.00	0.00	0.07	0.25	0.80	0.10	2.4 1.5	2	0
63200	HTC 615 JAMES ST S THUNDER BAY	339	0.00	0.00	0.00	0.00	0.08	0.27	0.03	0.8 0.3	0	0
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	359	0.00	0.07	0.18	0.36	0.77	1.70	0.35	3.5 1.0	0	0
75010	OPP STN NORTH BAY	351	0.00	0.06	0.13	0.26	0.60	1.41	0.28	3.3 1.0	0	0
77016	WATER TANK, ASH ST SUDBURY	178	0.00	0.00	0.00	0.16	0.33	0.94	0.15	2.1 0.5	0	INS
77028	GOVERNMENT RD/EDWARD ST CONISTON	177	0.00	0.00	0.00	0.14	0.28	0.68	0.12	4.3 0.4	0	INS

TABLE A-7 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT							RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES				ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA	24HR	1YR
			10	30	50	70		1HR	24HR			
77075	KENNEDY ST. NEW SUBBURY	178	0.00	0.00	0.00	0.15	0.33	0.89	0.14	3.0	0.6	0 INS
77203	SCIENCE NORTH SUBBURY	358	0.00	0.05	0.11	0.19	0.38	0.86	0.21	2.0	0.8	0 0

TABLE A-8 10-YEAR TREND FOR SP

City	Annual Mean (COH/1000 ft.)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CORNWALL	.20	.18	.10	.16	.18	.16	.09	.06	.04	.10
ETOBICOKE	.58	.42	.31	.49	.37	.52	.47	.54	.52	.43
HAMILTON	.63	.54	.58	.57	.44	.55	.52	.57	.55	.46
LONDON	.32	.33	.30	.32	.31	.29	.30	.30	.27	.25
NIAGARA FALLS	.25	.22	.25	.22	.20	.22	.20	.18	.20	.32
NORTH YORK	.55	.48	.54	.60	.57	.62	.56	-	-	.34
OSHAWA	.33	.31	.31	.41	.33	.40	.37	.33	.37	.31
OTTAWA	.23	.14	.18	.18	.18	.19	.14	.15	.19	.23
SARNIA	.30	.27	.28	.27	.27	.29	.25	.31	.29	.24
SCARBORO	.37	.35	.40	.37	.32	.36	.34	.34	.38	.37
SUDBURY *	.12	.13	.12	.12	.12	.15	.13	.16	.16	.21
ST CATHARINES	.37	.31	.32	.29	.27	.24	.26	.24	.27	.23
TORONTO	.39	.34	.45	.46	.41	.47	.36	.39	.38	.34
WINDSOR	.47	.42	.41	.43	.47	.46	.41	.43	.37	.44

* change of location from Ash Street (77016) to Science Centre (77203)

TABLE A-9 TOTAL REDUCED SULPHUR (TRS) STATISTICS (1988)

YEAR - 1988	STATION NUMBER	LOCATION	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH POLLUTANT - TOTAL REDUCED SULPHUR UNIT = PARTS/BILLION										SEP 19, 1989	
			NO. OF DAYS		PERCENTILES					ARITH- METIC MEAN		MAXIMUM		EXCEEDANCES OF PULP MILL CRIT.
			10	30	50	70	90	99		1HR	24HR	1HR	24HR	1HR
12007	WRIGHT/WATER ST WINDSOR		358	0.0	0.0	0.5	1.5	6.4	39.9	3.2		165	50	182
12016	COLLEGE/SOUTH ST WINDSOR		204	0.0	0.3	0.8	1.5	3.4	12.6	1.9		46	8	4
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA		360	0.0	0.0	0.0	0.6	1.6	3.9	0.7		12	3	0
18007	CONCESSION RD 2 LOT A TIVERTON		262	0.0	0.0	0.0	0.4	1.6	3.3	0.6		7	4	0
22086	CHEAPSIDE RD(3 KH S OF HWY 3) NANTICOKE		364	0.0	0.0	0.0	0.1	1.0	3.5	0.5		22	4	0
22904	WALPOLE S PS, SANDUSK RD NANTICOKE		364	0.0	0.0	0.0	0.0	0.7	4.6	0.4		22	4	0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE		353	0.0	0.0	0.0	0.7	3.2	13.6	1.4		98	14	12
27052	185 QUEEN ST S THOROLD		327	0.0	0.5	1.6	3.2	17.3	60.8	6.2		169	55	517
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS		336	0.0	0.3	1.7	3.2	9.6	33.8	4.1		67	28	144
29000	ELGIN/KELLY ST HAMILTON		362	0.0	0.0	0.0	0.4	1.8	6.4	0.8		21	6	0
29025	BARTON/HENTHORTH HAMILTON		210	0.0	0.0	0.0	0.5	2.0	7.7	0.9		16	6	0
29102	467 BEACH BLVD HAMILTON		351	0.0	0.3	1.1	2.4	5.4	14.7	2.5		54	12	9
29114	VICKERS RD/EAST 18TH ST HAMILTON		332	0.0	0.0	0.3	1.2	2.8	6.6	1.2		17	6	0
44015	BROOK RD/WOBURN CRES OAKVILLE		353	0.0	0.0	0.6	1.4	2.5	8.9	1.4		25	11	0
46117	MEADOW PK, APPLE LANE CLUB MISSISSAUGA		214	0.0	0.0	0.2	0.7	1.7	3.8	0.9		15	3	0

TABLE A-9 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988		POLLUTANT - TOTAL REDUCED SULPHUR				UNIT = PARTS/BILLION				RUN DATE SEP 19, 1989		
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC MEAN	MAXIMUM		EXCEEDANCES OF PULP HILL CRIT. 1HR	
			10	30	50	70	90		1HR	24HR		
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	364	0.0	0.3	1.0	1.9	4.3	21.8	2.5	140	22	61
56068	SCHOOL, 435 SECOND ST W CORNWALL	219	0.0	0.0	1.3	4.0	11.6	66.4	5.3	198	46	149
56071	ST. PETER'S SCHOOL CORNWALL	231	0.0	1.2	2.4	4.0	17.6	56.9	6.8	260	39	330
61027	35 VAN HORNE AV DRYDEN	323	0.0	0.0	0.0	0.0	0.9	5.6	0.4	45	5	1
62030	PORTAGE/CHURCH ST FORT FRANCES	359	0.0	0.0	0.2	4.2	22.9	73.7	5.9	268	45	552
62032	CEMETERY, COLONIZATION RD W FORT FRANCES	363	0.0	0.0	0.0	0.0	4.0	28.2	1.8	160	25	89
63034	PENINSULA BLDG MARATHON	327	0.0	0.0	0.0	0.0	6.5	30.6	2.2	67	22	109
63046	CAN-CAR, MONTREAL ST THUNDER BAY	361	0.0	0.0	0.0	0.2	2.6	11.3	1.0	36	10	4
63084	RECREATION CENTRE RED ROCK	350	0.0	0.0	0.0	0.2	7.9	40.4	2.9	201	39	184
63090	ST MARTIN SCHOOL TERRACE BAY	332	0.0	0.0	0.0	0.0	5.4	31.5	2.1	129	35	110
63200	MTC 615 JAMES ST S THUNDER BAY	353	0.0	0.0	0.0	0.0	0.0	2.7	0.2	13	2	0
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	320	0.0	0.0	0.0	0.0	0.7	3.3	0.4	20	6	0
72084	ROSS RD SHOOTH ROCK FALLS	254	0.0	0.0	0.4	0.7	1.6	11.8	1.2	60	11	16
77203	SCIENCE NORTH SUDBURY	315	0.0	0.0	0.0	0.0	0.7	1.8	0.3	9	2	0

TABLE A-10 10-YEAR TREND FOR TRS

City	Annual Mean (ppb)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CORNWALL	3.1	2.8	1.8	2.0	3.4	1.5	.8	2.6	4.3	2.5
FORT FRANCES	10.2	9.3	12.0	8.8	4.9	2.8	2.0	3.9	5.5	5.9
HAMILTON	2.4	.9	1.3	1.2	1.4	1.8	1.4	1.4	.9	0.8
THUNDER BAY	2.6	2.9	2.8	1.0	.5	.6	.8	1.0	.8	1.0

TABLE A-11 CARBON MONOXIDE (CO) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - CARBON MONOXIDE		UNIT = PARTS/MILLION									
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC		MAXIMUM	NO. OF TIMES ABOVE CRITERIA
			10	30	50	70	90	99	MEAN	1HR	8HR		
12008	467 UNIVERSITY AV W WINDSOR	361	0.0	0.0	0.4	0.8	1.4	2.7	0.9	9	4	0	0
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	355	0.0	0.0	0.0	0.0	0.7	1.8	0.3	11	3	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	365	0.0	0.0	0.0	0.3	0.9	2.6	0.5	10	5	0	0
26029	EDNA/FREDERICK STS KITCHENER	349	0.0	0.0	0.3	0.7	1.5	3.5	0.9	9	5	0	0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	297	0.0	0.1	0.4	0.7	1.3	3.0	1.0	8	6	0	0
29000	ELGIN/KELLY ST HAMILTON	362	0.0	0.3	0.6	0.9	1.6	3.0	1.2	11	5	0	0
29102	467 BEACH BLVD HAMILTON	325	0.0	0.0	0.1	0.5	1.0	2.2	0.7	17	10	0	0
31049	MISSION, 381 YONGE ST TORONTO	345	0.3	1.0	1.7	2.6	4.7	11.1	2.8	22	17	0	6
31104	26 BREADALBANE TORONTO	340	0.0	0.0	0.1	0.5	1.0	2.6	0.6	9	6	0	0
31120	PERTH/RUSKIN (JUNCTION TRIANGLE) TORONTO	360	0.0	0.0	0.2	0.6	1.2	3.1	0.8	9	8	0	0
31190	CN TOWER, 301 FRONT ST W TORONTO	259	0.0	0.0	0.0	0.4	0.8	1.0	0.5	9	2	0	0
32010	LEASIDE HYDRO STATION EAST YORK	204	0.0	0.1	0.4	0.8	1.6	3.5	1.0	8	5	0	0
33003	LAWRENCE/KENNEDY SCARBORO	364	0.0	0.0	0.4	0.8	1.6	3.3	1.0	8	6	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	353	0.0	0.0	0.3	0.6	1.0	2.3	0.8	6	4	0	0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	211	0.0	0.0	0.2	0.6	1.3	3.6	0.8	10	6	0	0

TABLE A-11 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988	POLLUTANT - CARBON MONOXIDE		UNIT = PARTS/MILLION										RUN DATE SEP 19, 1989
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC			MAXIMUM		NO. OF TIMES ABOVE CRITERIA 1HR 8HR
			10	30	50	70	90	99	MEAN	1HR	8HR		
34025	35 EDGAR AVE NORTH YORK WEST	212	0.0	0.3	0.6	0.9	1.8	3.8	1.2	9	6	0	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	307	0.0	0.0	0.4	0.8	1.9	7.6	1.2	11	11	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	363	0.0	0.0	0.4	0.7	1.3	4.4	0.9	14	11	0	0
36030	CLEARVIEW HTGS/KEELE ST YORK	210	0.0	0.1	0.4	0.7	1.3	4.6	1.0	10	9	0	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	353	0.0	0.0	0.2	0.5	0.9	1.9	0.7	9	3	0	0
44015	BRONTE RD/HOBURN CRES OAKVILLE	354	0.0	0.0	0.2	0.5	0.9	2.0	0.7	8	6	0	0
45025	PS. RITSON RD/OLIVE AV OSHANA	365	0.0	0.2	0.5	0.8	1.5	3.8	1.1	14	5	0	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	359	0.0	0.1	0.5	0.8	1.4	3.6	1.0	16	9	0	0
51001	HCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	358	0.0	0.0	0.0	0.3	0.8	1.9	0.5	7	3	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	356	0.0	0.0	0.0	0.4	0.9	2.5	0.6	8	5	0	0
63200	MTC 615 JAMES ST S THUNDER BAY	359	0.0	0.0	0.0	0.0	0.8	2.1	0.4	6	3	0	0
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	322	0.0	0.0	0.1	0.5	1.0	3.4	0.7	12	7	0	0
75010	OPP STN NORTH BAY	335	0.0	0.0	0.0	0.0	0.7	1.7	0.3	5	3	0	0
77203	SCIENCE NORTH SUDBURY	50	0.0	0.0	0.0	0.1	0.7	1.9	0.4	3	3	0	0

TABLE A-12 10-YEAR TREND FOR CO

City	Annual Mean (ppm)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CORNWALL	.9	1.1	1.1	1.0	.2	.2	.2	.2	.3	.6
ETOBICOKE	1.3	1.1	1.0	1.1	1.6	1.4	1.3	1.2	1.2	1.2
HAMILTON	1.5	.9	1.2	1.1	.9	.8	1.2	1.1	1.2	1.2
KITCHENER	1.0	1.1	1.1	1.0	1.0	.9	.8	.9	.8	.9
LONDON	.4	.3	.4	.3	.3	.4	.3	.3	.4	.5
NORTH YORK	1.6	1.4	1.7	2.3	-	1.3	1.4	1.3	1.2	.8
OAKVILLE	1.3	1.2	2.3	1.4	1.3	0.9	1.0	1.0	.8	.9
OSHAWA	1.2	1.8	2.0	1.9	2.0	1.8	1.0	1.2	.8	1.1
OTTAWA	1.0	1.2	1.3	.9	.2	.3	.6	.6	.3	.5
SARNIA	.3	.3	.2	.2	.1	.1	.2	.2	.2	.3
SCARBORO	1.5	1.5	1.4	1.6	1.2	1.4	1.3	1.0	1.1	1.0
ST CATHARINES	.9	.6	1.0	.4	.4	.4	.2	.2	-	1.0
SUDBURY *	.2	.1	.1	.1	.1	.1	.1	.1	.1	.3
TORONTO	1.5	-	1.3	1.5	1.1	1.0	1.1	1.0	1.1	.6
WINDSOR	2.0	1.7	1.1	.5	.8	.5	.5	.5	.7	.9

* change of location from Ash Street (77016) to Science Centre (77203)

TABLE A-13 TOTAL HYDROCARBON (THC) STATISTICS (1988)

YEAR - 1988	STATION NUMBER	LOCATION	POLLUTANT - TOTAL HYDROCARBONS	NO. OF DAYS	PERCENTILES					UNIT = PARTS/MILLION			RUN DATE SEP 19, 1989
					10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR	
12008	467	UNIVERSITY AV W WINDSOR		322	1.89	2.01	2.11	2.26	2.54	3.31	2.23	5.3	3.0
14064		CENTENNIAL PK.FRONT ST/CN TRACKS SARNIA		355	1.54	1.69	1.84	2.03	2.43	3.60	1.99	8.8	3.3
15001	WRN	FAIR GROUNDS, KING/RECTORY LONDON		238	1.63	1.85	2.02	2.22	2.71	4.17	2.18	7.9	3.5
22071		EXPERIMENTAL FARM SINCOE		211	1.46	1.68	1.75	1.80	1.91	2.11	1.71	8.1	2.1
22904	WALPOLE S PS,	SANDUSK RD NANTICOKE		208	1.54	1.65	1.72	1.78	1.90	2.33	1.72	5.0	2.1
22907	RAINHAM RD (NEAR	STELCO GATE) NANTICOKE		203	1.43	1.54	1.61	1.68	1.79	2.04	1.61	3.2	2.1
27067	ARCYLE CRES (PUMP	STN) ST CATHARINES		93	1.23	1.58	1.67	1.76	2.03	3.97	1.67	7.4	3.2
29000	ELGIN/KELLY ST HAMILTON			182	1.69	1.77	1.84	1.92	2.17	2.93	1.95	4.5	3.1
29102	467 BEACH BLVD HAMILTON			204	1.40	1.74	1.92	2.08	2.30	2.94	1.89	5.1	2.9
31104	26 BREADALBANE TORONTO			359	1.53	1.76	1.93	2.09	2.44	3.32	2.01	8.5	3.3
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO			314	1.17	1.56	1.75	1.93	2.34	3.62	1.80	7.5	3.9
33003	LAWRENCE/KENNEDY SCARBORO			358	1.91	2.05	2.15	2.28	2.63	3.78	2.25	9.6	3.6
34002	SC CTR, 770 DON HILLS RD NORTH YORK			100	1.43	1.85	2.26	2.73	3.63	5.02	2.46	13.7	4.9
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE			309	1.63	1.81	2.01	2.24	2.93	6.78	2.27	12.9	5.9
35033	EVANS/ARNOLD AV ETOBICOKE			192	1.71	1.85	1.98	2.14	2.57	4.05	2.11	9.3	3.6

TABLE A-13 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										
YEAR - 1988		POLLUTANT - TOTAL HYDROCARBONS		UNIT = PARTS/MILLION						
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES				ARITH- METIC MEAN	MAXIMUM 1HR 24HR
					50	70	90	99		
44015	BRONTE RD/WOBURN CRES OAKVILLE	325	1.22	1.53	1.75	2.01	2.58	4.97	1.92	8.5 6.5
46117	MEADOW PK, APPLE LANE CLUB MISSISSAUGA	106	0.90	1.87	2.41	3.03	4.31	5.78	2.57	8.7 5.5

RUN DATE
SEP 19, 1989

TABLE A-14 10-YEAR TREND FOR THC

City	Annual Mean (ppm)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
ETOBICOKE	2.29	2.17	2.19	2.28	2.58	2.23	2.39	2.31	1.86	2.11
LONDON	2.30	2.41	2.36	2.48	2.57	2.89	2.85	2.80	2.99	2.18
NORTH YORK	1.67	1.48	1.68	2.11	2.31	2.19	2.18	2.28	1.72	2.46
SARNIA	1.99	1.86	2.09	2.12	2.02	2.04	1.93	1.62	2.00	1.99
SCARBORO	1.64	1.54	2.00	1.83	1.90	2.08	2.39	2.20	2.31	2.25
TORONTO	1.32	1.43	1.71	1.66	1.37	1.89	1.76	1.61	1.79	2.01
WINDSOR	1.86	2.22	2.18	2.12	2.09	2.29	2.08	2.15	2.29	2.23

TABLE A-15 REACTIVE HYDROCARBON (RHC) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1988		POLLUTANT - REACTIVE HYDROCARBONS										UNIT = PARTS/MILLION		SEP 19, 1989
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC MEAN			MAXIMUM			
			10	30	50	70	90	99	1HR	24HR				
12008	467 UNIVERSITY AV W WINDSOR	324	0.14	0.21	0.26	0.31	0.42	0.76	0.33	1.5	0.6			
22071	EXPERIMENTAL FARM SINCDE	346	0.01	0.05	0.09	0.14	0.19	0.28	0.15	0.7	0.3			
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	340	0.00	0.05	0.10	0.15	0.19	0.63	0.16	1.8	0.7			
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	357	0.00	0.03	0.05	0.08	0.12	0.20	0.11	0.6	0.2			
29000	ELGIN/KELLY ST HAMILTON	182	0.01	0.05	0.08	0.13	0.23	0.58	0.16	1.3	0.6			
29102	467 BEACH BLVD HAMILTON	329	0.02	0.08	0.20	0.29	0.45	0.69	0.26	1.3	0.8			

TABLE A-16 NITROGEN DIOXIDE (NO₂) STATISTICS (1988)

YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE		
	POLLUTANT - NITROGEN DIOXIDE					UNIT = PARTS/MILLION					SEP 19, 1989		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	357	.008	.016	.022	.030	.045	.070	.030	.16	.06	0	0
14064	CENTENNIAL PK.FRONT ST/CN TRACKS SARNIA	326	.000	.002	.007	.015	.029	.049	.015	.09	.05	0	0
15001	MNR FAIR GROUNDS, KING/RECTORY LONDON	362	.000	.007	.013	.020	.032	.052	.020	.08	.05	0	0
15013	PUC BLDG PARKHILL	346	.000	.000	.003	.007	.015	.028	.008	.05	.03	0	0
22071	EXPERIMENTAL FARM SINCOE	328	.000	.000	.003	.006	.012	.028	.008	.06	.03	0	0
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	358	.000	.000	.002	.006	.010	.025	.007	.07	.03	0	0
22901	PROVINCIAL PARK LONG POINT	357	.000	.002	.006	.009	.017	.029	.011	.07	.04	0	0
26029	EDNA/FREDERICK STS KITCHENER	343	.005	.013	.020	.028	.039	.060	.027	.14	.08	0	0
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	254	.000	.006	.011	.018	.029	.049	.018	.08	.05	0	0
29000	ELGIN/KELLY ST HAMILTON	362	.003	.011	.017	.024	.036	.060	.024	.13	.07	0	0
29102	467 BEACH BLVD HAMILTON	350	.000	.012	.021	.028	.038	.060	.025	.11	.06	0	0
29118	MAIN ST W/HWY 403 HAMILTON	346	.001	.007	.013	.020	.036	.060	.021	.11	.06	0	0
31049	MISSION, 381 YONGE ST TORONTO	348	.007	.017	.025	.034	.048	.081	.032	.19	.10	0	0
31104	26 BREADALBANE TORONTO	355	.004	.013	.019	.026	.038	.064	.026	.20	.08	0	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	356	.003	.016	.023	.031	.046	.075	.030	.13	.07	0	0

TABLE A-16 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - NITROGEN DIOXIDE							UNIT = PARTS/MILLION			RUN DATE SEP 19, 1989	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA
			10	30	50	70	90	99	1HR		24HR		
31190	CN TOWER, 301 FRONT ST W TORONTO	342	.000	.000	.000	.005	.013	.031	.007	.10	.03	0	0
32010	LEASIDE HYDRO STATION EAST YORK	206	.005	.014	.022	.030	.045	.076	.029	.19	.09	0	0
33003	LAWRENCE/KENNEDY SCARBORO	362	.002	.011	.018	.026	.039	.068	.025	.11	.06	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	354	.011	.016	.022	.027	.036	.051	.027	.14	.06	0	0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	214	.000	.005	.012	.020	.034	.061	.019	.10	.05	0	0
34025	35 EDGAR AVE NORTH YORK WEST	209	.013	.020	.027	.038	.061	.096	.038	.14	.09	0	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	311	.000	.007	.014	.022	.034	.057	.021	.17	.07	0	0
35033	EVANS/ARNOLD AV ETOBICOKE	363	.008	.018	.026	.034	.052	.083	.033	.15	.09	0	0
36030	CLEARVIEW HTGS/KEELE ST YORK	213	.005	.013	.019	.027	.039	.071	.027	.17	.07	0	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	357	.004	.011	.016	.022	.033	.050	.023	.10	.05	0	0
44015	BRONTE RD/HOBURN CRES OAKVILLE	290	.000	.004	.009	.016	.027	.048	.016	.10	.04	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	365	.001	.009	.017	.026	.039	.067	.024	.14	.07	0	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	336	.003	.009	.014	.020	.030	.052	.021	.09	.05	0	0
48002	HWY47/E OF HWY48 STOUFFVILLE	352	.001	.005	.009	.015	.025	.040	.016	.08	.05	0	0
49010	HWY 117/PAINT LAKE RD DORSET	281	.000	.000	.000	.000	.006	.016	.002	.07	.01	0	0

TABLE A-16 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - NITROGEN DIOXIDE						UNIT = PARTS/MILLION				RUN DATE SEP 19, 1989	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES				ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA		1HR	24HR
			10	30	50	70		90	99					1HR	24HR
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	360	.000	.002	.008	.016	.029	.057	.016	.11	.08	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	.000	.000	.001	.006	.016	.036	.008	.09	.03	0	0
63200	MTC 615 JAMES ST S THUNDER BAY	358	.000	.001	.005	.010	.023	.044	.012	.09	.04	0	0
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	301	.000	.002	.007	.013	.025	.045	.014	.08	.03	0	0
75010	OPP STN NORTH BAY	357	.000	.000	.003	.008	.020	.040	.010	.08	.03	0	0
77203	SCIENCE NORTH SUDBURY	359	.000	.000	.004	.008	.017	.037	.010	.17	.03	0	0

TABLE A-17 10-YEAR TREND FOR NO₂

City	Annual Mean (ppm)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CORNWALL	.011	.011	.011	.010	.011	.011	.010	.011	.010	.008
ETOBICOKE	.022	.018	.022	.021	.021	.024	.026	.027	.028	.021
HAMILTON	.029	.027	.029	.031	.029	.029	.025	.027	.026	.024
KITCHENER	.030	.026	.026	.028	.025	.027	.029	.032	.026	.027
LONDON	.030	.020	.017	.021	.021	.024	.025	.026	.021	.020
MISSISSAUGA	.029	.027	.029	.026	.026	.026	.026	.026	.025	.021
NORTH YORK	.023	.020	.014	.022	.023	.026	.027	.023	.025	.027
OAKVILLE	.022	.023	.020	.018	.016	.018	.016	.020	.017	.016
OSHAWA	.019	.019	.019	.020	.019	.021	.020	.021	.022	.024
OTTAWA	.012	.017	.016	.015	.014	.014	.012	.012	.015	.016
SARNIA	.019	.022	.018	.022	.020	.023	.019	.021	.012	.015
SCARBORO	.027	.030	.025	.025	.019	.018	.018	.022	.022	.025
SIMCOE	.010	.012	.014	.010	.009	.009	.006	.005	.005	.008
ST CATHARINES	.026	.020	.022	.019	.020	.018	.017	.019	-	.018
SUBSBURY	.006	.006	.007	.006	.006	.006	.007	.010	.011	.010
TORONTO	.029	.028	.025	.027	.025	.027	.026	.027	.025	.025
WINDSOR	.033	.031	.030	.029	.026	.027	.026	.025	.027	.030

TABLE A-18 NITRIC OXIDE (NO) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE
YEAR - 1988		POLLUTANT - NITRIC OXIDE		UNIT = PARTS/MILLION						SEP 19, 1988
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES 50 70 90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	
<hr/>										
12008	467 UNIVERSITY AV W WINDSOR	362	.000	.000	.003	.009	.029	.116	.014	0.52 0.09
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	327	.000	.000	.000	.002	.014	.058	.006	0.48 0.06
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	363	.000	.000	.004	.009	.029	.130	.015	0.34 0.10
15013	PUC BLDG PARKHILL	354	.000	.000	.000	.004	.008	.010	.005	0.08 0.01
22071	EXPERIMENTAL FARM SINCOE	328	.000	.000	.000	.000	.005	.016	.002	0.09 0.02
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	355	.000	.000	.000	.000	.006	.019	.003	0.21 0.03
22901	PROVINCIAL PARK LONG POINT	355	.000	.000	.000	.000	.000	.023	.001	0.07 0.04
26029	EDNA/FREDERICK STS KITCHENER	348	.000	.002	.012	.035	.125	.370	.047	0.99 0.35
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	208	.000	.000	.000	.001	.016	.178	.010	0.58 0.13
29000	ELGIN/KELLY ST HAMILTON	335	.000	.000	.001	.010	.038	.168	.017	0.56 0.23
29102	467 BEACH BLVD HAMILTON	356	.000	.000	.008	.023	.053	.138	.023	0.31 0.12
29118	MAIN ST W/HWY 403 HAMILTON	350	.000	.000	.006	.017	.073	.285	.029	0.91 0.24
31049	MISSION, 361 YONGE ST TORONTO	354	.010	.026	.046	.079	.147	.304	.071	0.82 0.31
31104	26 BREADALBANE TORONTO	364	.000	.000	.006	.014	.036	.134	.018	0.52 0.18
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	362	.000	.000	.001	.009	.040	.190	.018	0.70 0.24

TABLE A-18 (Cont.)

YEAR - 1988	STATION NUMBER	LOCATION	POLLUTANT - NITRIC OXIDE	NO. OF DAYS	PERCENTILES					UNIT = PARTS/MILLION			RUN DATE SEP 19, 1989
					10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR	
31190	CN TOWER, 301 FRONT ST W TORONTO			343	.000	.000	.000	.000	.003	.032	.002	0.95 0.06	
32010	LEASIDE HYDRO STATION EAST YORK			206	.000	.005	.012	.030	.091	.303	.038	0.72 0.22	
33003	LAWRENCE/KENNEDY SCARBORO			360	.000	.003	.013	.029	.075	.244	.033	0.63 0.17	
34002	SC CTR, 770 DON MILLS RD NORTH YORK			324	.000	.000	.004	.011	.049	.205	.021	0.74 0.20	
34020	HENDON AVE (YONGE/FINCH) NORTH YORK			214	.000	.002	.007	.016	.058	.220	.025	0.43 0.20	
34025	35 EDGAR AVE NORTH YORK WEST			209	.000	.005	.017	.045	.108	.316	.045	0.53 0.30	
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE			317	.000	.000	.005	.016	.058	.269	.026	0.88 0.25	
35033	EVANS/ARNOLD AV ETOBICOKE			360	.000	.010	.026	.049	.108	.307	.050	0.71 0.24	
36030	CLEARVIEW HTGS/KEELE ST YORK			211	.000	.001	.007	.018	.069	.347	.032	0.74 0.28	
44008	HWY2/NORTH SHORE BLVD E BURLINGTON			342	.000	.000	.002	.013	.040	.169	.018	0.63 0.13	
44015	BRONTE RD/HOBURN CRES OAKVILLE			353	.000	.000	.004	.013	.038	.168	.018	0.60 0.15	
45025	PS, RITSON RD/OLIVE AV OSHANA			356	.000	.000	.000	.006	.036	.140	.014	0.37 0.10	
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA			341	.000	.001	.008	.019	.054	.225	.026	0.75 0.24	
48002	HWY47/E OF HWY48 STOUFVILLE			315	.000	.000	.005	.016	.031	.090	.016	0.26 0.10	
49010	HWY 117/PALM LAKE RD DORSET			366	.000	.000	.000	.000	.000	.009	.001	0.05 0.01	

TABLE A-18 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE SEP 19, 1989
YEAR - 1988		POLLUTANT - NITRIC OXIDE		UNIT = PARTS/MILLION						
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES			99	ARITH- METIC MEAN	MAXIMUM 1HR 24HR
<hr/>										
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	360	.000	.000	.000	.002	.026	.131	.011	0.64 0.12
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	.000	.000	.002	.006	.010	.099	.010	0.42 0.10
63200	MTC 615 JAMES ST S THUNDER BAY	357	.000	.000	.001	.007	.024	.119	.012	0.30 0.08
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	301	.000	.001	.005	.009	.023	.086	.013	0.21 0.05
75010	OPP STN NORTH BAY	357	.000	.000	.004	.009	.030	.131	.015	0.31 0.07
77203	SCIENCE NORTH SUDBURY	359	.000	.000	.000	.002	.009	.048	.005	0.24 0.05

TABLE A-19 10-YEAR TREND FOR NO

City	Annual Mean (ppm)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CORNWALL	.009	.007	.006	.005	.008	.007	.008	.005	.011	.010
ETOBICOKE	.027	.019	.026	.027	.026	.026	.027	.031	.028	.026
HAMILTON	.030	.021	.024	.024	.018	.023	.019	.022	.014	.017
KITCHENER	.044	.037	.058	.038	.045	.046	.047	.051	.051	.047
LONDON	.018	.016	.018	.015	.014	.017	.013	.019	.018	.015
MISSISSAUGA	.032	.026	.027	.025	.027	.028	.030	.032	.030	.026
NORTH YORK	.034	.028	.050	.036	.030	.027	.028	.022	.026	.021
OAKVILLE	.018	.020	.020	.015	.012	.017	.016	.020	.018	.018
OSHAWA	.020	.017	.017	.017	.013	.023	.017	.016	.019	.014
OTTAWA	.026	.013	.015	.013	.009	.012	.011	.010	.012	.011
SARNIA	.017	.010	.014	.009	.010	.008	.007	.009	.006	.006
SCARBORO	.037	.029	.034	.028	.028	.033	.032	.032	.035	.033
SIMCOE	.003	.001	.002	.002	.002	.005	.004	.007	.005	.002
ST CATHARINES	.022	.009	.014	.008	.009	.016	.009	.008	-	.010
SUDBURY	.006	.005	.006	.007	.005	.007	.010	.008	.008	.005
TORONTO	.019	.016	.023	.022	.019	.021	.019	.022	.021	.018
WINDSOR	.021	.019	.017	.011	.016	.028	.015	.021	.014	.014

TABLE A-20 TOTAL NITROGEN OXIDE (NO_x) STATISTICS (1988)

YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
	POLLUTANT - NITROGEN OXIDES					UNIT = PARTS/MILLION					SEP 19, 1989	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC		MAXIMUM		
			10	30	50	70	90	99	MEAN		1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	355	.011	.021	.030	.044	.075	.172	.044		0.59	0.16
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	325	.000	.003	.009	.020	.044	.098	.021		0.57	0.09
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	362	.002	.012	.022	.034	.062	.168	.035		0.38	0.13
15013	PUC BLDG PARKHILL	212	.000	.001	.005	.008	.017	.032	.010		0.09	0.03
22071	EXPERIMENTAL FARM SIMCOE	328	.000	.000	.004	.008	.017	.041	.010		0.13	0.04
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	354	.000	.000	.004	.009	.018	.048	.012		1.31	0.34
22901	PROVINCIAL PARK LONG POINT	354	.000	.002	.006	.010	.019	.043	.013		0.34	0.06
26029	EDNA/FREDERICK STS KITCHENER	340	.008	.023	.038	.066	.160	.413	.073		1.03	0.40
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	211	.001	.006	.014	.024	.047	.232	.029		0.71	0.16
29000	ELGIN/KELLY ST HAMILTON	335	.004	.014	.024	.038	.076	.216	.041		0.64	0.28
29102	467 BEACH BLVD HAMILTON	350	.000	.017	.038	.058	.090	.185	.048		0.78	0.21
29118	MAIN ST W/HWY 403 HAMILTON	347	.003	.013	.024	.045	.116	.338	.052		0.98	0.29
31049	MISSION, 381 YONGE ST TORONTO	344	.028	.052	.078	.117	.193	.361	.104		0.89	0.35
31104	26 BREADALBANE TORONTO	357	.008	.021	.030	.044	.074	.197	.044		0.57	0.30
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	355	.007	.019	.030	.045	.085	.238	.047		0.81	0.31

TABLE A-20 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
YEAR - 1988		POLLUTANT - NITROGEN OXIDES			UNIT = PARTS/MILLION					SEP 19, 1989	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC MEAN	MAXIMUM		
			10	30	50	70	90		99	1HR	24HR
31190	CN TOWER, 301 FRONT ST W TORONTO	341	.000	.000	.000	.006	.018	.062	.009	1.00	0.07
32010	LEASIDE HYDRO STATION EAST YORK	205	.011	.025	.043	.068	.134	.358	.067	0.76	0.27
33003	LAWRENCE/KENNEDY SCARBORO	360	.004	.021	.039	.060	.114	.293	.058	0.69	0.22
34002	SC CTR, 770 DON MILLS RD NORTH YORK	315	.012	.022	.032	.045	.085	.241	.049	0.80	0.24
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	214	.003	.012	.026	.046	.094	.253	.046	0.48	0.23
34025	35 EDGAR AVE NORTH YORK WEST	208	.000	.016	.038	.077	.150	.359	.068	0.59	0.33
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	312	.003	.013	.023	.039	.088	.318	.046	1.05	0.30
35033	EVANS/ARNOLD AV ETOBICOKE	360	.017	.038	.060	.089	.160	.403	.085	0.80	0.39
36030	CLEARVIEW HTGS/KEELE ST YORK	213	.012	.022	.033	.050	.112	.396	.060	0.80	0.33
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	342	.006	.016	.026	.040	.070	.209	.041	0.65	0.16
44015	BRONTE RD/MOBRUN CRES OAKVILLE	285	.000	.010	.021	.035	.069	.211	.036	0.62	0.17
45025	PS, RITSON RD/OLIVE AV OSHAWA	356	.000	.009	.020	.037	.078	.189	.036	0.48	0.14
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	333	.006	.017	.028	.044	.084	.265	.047	0.77	0.27
48002	HWY47/E OF HWY48 STOUFFVILLE	314	.002	.010	.022	.035	.057	.120	.032	0.28	0.12
49010	HWY 117/PAINT LAKE RD DORSET	299	.000	.000	.000	.000	.007	.017	.003	0.08	0.02

TABLE A-20 (Cont.)

YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE SEP 19, 1989
	POLLUTANT - NITROGEN OXIDES		UNIT = PARTS/MILLION								
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC MEAN	MAXIMUM 1HR 24HR
			10	30	50	70	90	99			
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	360	.000	.003	.010	.023	.058	.178	.026	0.65	0.21
56051	MEMORIAL PK. BEDFORD/THIRD STS CORNWALL	363	.000	.002	.007	.013	.029	.132	.017	0.47	0.12
63200	MTC 615 JAMES ST S THUNDER BAY	357	.000	.005	.011	.021	.049	.154	.025	0.38	0.10
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	301	.002	.008	.016	.026	.049	.123	.027	0.25	0.08
75010	OPP STN NORTH BAY	357	.000	.003	.010	.020	.053	.172	.025	0.38	0.10
77203	SCIENCE NORTH SUDBURY	359	.000	.002	.006	.012	.026	.083	.015	0.30	0.07

TABLE A-21 OZONE (O₃) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - OZONE			UNIT = PARTS/BILLION							RUN DATE SEP 19, 1989	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES							ARITH- METIC		NO. OF TIMES ABOVE CRITERIA	
			10	30	50	70	90	99	MEAN	1HR	24HR	1HR	24HR
10001	COLLEGE OF AGRIC TECH HURON PARK	361	10.5	19.6	25.9	32.7	52.5	93.3	29.7	127	82	228	
12008	467 UNIVERSITY AV W WINDSOR	353	2.2	7.7	15.8	25.8	49.4	92.1	21.9	159	86	223	
12016	COLLEGE/SOUTH ST WINDSOR	213	0.6	5.5	14.0	27.3	59.4	100.7	23.0	154	87	206	
13021	MOE WATER PUMP STN, MIDDLE RD MERLIN	357	11.2	19.9	26.4	34.6	57.1	102.5	31.5	133	90	362	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	354	3.0	12.4	20.4	27.6	40.3	85.4	22.6	131	64	125	
14118	CONCESSION RD 26 MAUDAMIA	350	10.4	20.0	26.6	34.2	49.8	95.0	30.0	146	87	239	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	355	3.0	12.1	19.5	27.2	47.6	89.9	23.7	137	75	174	
15013	PUC BLDG PARKHILL	346	6.8	16.3	22.9	29.3	48.6	96.4	26.5	124	88	204	
16007	CONCESSION RD 2 LOT A TIVERTON	360	15.8	25.6	31.5	37.2	54.6	102.0	34.6	143	93	331	
22071	EXPERIMENTAL FARM SIMCOE	348	10.2	19.0	25.4	34.2	58.6	105.7	31.2	190	123	354	
22901	PROVINCIAL PARK LONG POINT	351	15.7	25.0	31.8	40.7	68.5	121.6	38.3	189	118	566	
26029	EDNA/FREDERICK STS KITCHENER	348	2.1	10.5	17.5	24.1	44.0	90.3	21.6	118	88	172	
26045	WEBER/UNIVERSITY ST WATERLOO	199	2.2	10.2	16.8	25.3	47.9	82.7	21.9	122	77	62	
27056	ALLENDALE AV NIAGARA FALLS	215	5.1	14.2	21.8	30.9	57.0	103.2	27.6	139	94	207	
27067	ARGYLE CRES (PUMP STN) ST CATHARINES	341	2.7	12.3	19.8	27.8	47.9	85.8	23.7	132	77	123	

TABLE A-21 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988		POLLUTANT - OZONE			UNIT = PARTS/BILLION							RUN DATE
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES				ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	SEP 19, 1989	
			10	30	50	70						90
28028	EXHIBITION ST/CLARK ST GUELPH	349	2.6	13.0	21.3	29.0	45.2	88.4	24.0	117	70	138
29000	ELGIN/KELLY ST HAMILTON	362	0.0	5.7	13.0	20.9	40.0	90.5	17.9	137	79	144
29105	NASH RD/KENTLEY DR HAMILTON	368	0.4	9.3	16.7	24.7	43.6	84.1	20.5	128	80	99
29114	VICKERS RD/EAST 18TH ST HAMILTON	353	0.0	7.5	15.3	23.8	42.9	87.7	19.8	131	85	156
29118	MAIN ST W/HWY 403 HAMILTON	356	0.0	4.7	13.3	21.6	42.3	93.3	18.2	131	89	192
31104	26 BREADALBANE TORONTO	355	1.5	6.5	12.8	20.2	36.8	83.4	17.5	159	68	110
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	356	0.5	5.9	13.9	22.2	36.8	85.2	17.9	178	66	112
31190	CN TOWER, 301 FRONT ST W TORONTO	349	5.4	19.1	27.6	36.6	57.5	107.7	31.3	196	126	373
32010	LEASIDE HYDRO STATION EAST YORK	208	0.0	3.7	10.4	18.5	36.9	74.1	15.4	98	47	27
33003	LAWRENCE/KENNEDY SCARBORO	356	0.0	6.1	13.6	21.3	37.9	84.9	17.7	162	62	106
34002	SC CTR, 770 DOW HILLS RD NORTH YORK	317	0.3	2.9	6.8	11.6	18.4	37.2	9.0	78	28	0
34020	HENDON AVE (YONGE/FINCH) NORTH YORK	214	1.9	6.2	13.4	24.9	50.1	98.8	21.2	177	73	150
34025	35 EDGAR AVE NORTH YORK WEST	212	0.0	2.2	9.7	20.3	38.2	92.6	15.9	124	63	84
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	292	0.0	5.4	14.8	24.0	41.8	96.8	19.3	148	69	154
35033	EVANS/ARNOLD AV ETOBICOKE	350	0.1	3.1	8.6	15.8	31.2	74.5	13.5	157	58	68

TABLE A-21 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988	POLLUTANT - OZONE		UNIT = PARTS/BILLION							RUN DATE SEP 19, 1989		
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES					ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	
			10	30	50	70	90					99
36030	CLEARVIEW HTGS/KEELE ST YORK	212	2.7	6.0	13.4	23.1	47.5	97.7	20.6	159	68	144
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	343	0.8	9.1	15.8	22.4	36.8	68.1	18.5	151	65	38
44015	BRONTE RD/WOBURN CRES OAKVILLE	364	0.0	9.1	17.8	25.7	42.4	89.7	20.8	183	74	141
45025	PS, RITSON RD/OLIVE AV OSHAWA	347	2.0	9.4	17.1	24.2	37.8	89.2	20.2	185	76	138
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	352	0.5	6.5	13.2	20.6	38.1	83.4	17.7	177	66	108
47035	509 VICTORIA ST E ALLISTON	359	5.8	16.5	24.6	32.6	44.8	82.2	26.5	177	83	99
48002	HWY47/E OF HWY48 STOUFFVILLE	356	6.6	17.3	23.6	30.1	48.0	86.5	26.6	161	85	153
49010	HWY 117/PAINT LAKE RD DORSET	333	12.7	22.2	28.8	35.4	48.2	84.5	30.9	117	72	121
51001	MCD GDS, RIDEAU/MURTEMBURG ST OTTAWA	356	3.4	9.9	17.0	25.3	41.0	73.8	20.7	127	87	57
52020	CHURCHILL PK, NAPIER ST KINGSTON	134	0.0	0.0	1.1	21.4	39.3	98.7	15.2	140	91	85
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	4.0	13.6	21.3	30.2	43.1	78.3	24.0	127	91	77
59006	CITY HALL, 500 GEORGE ST PETERBORO	324	5.4	14.1	20.7	27.5	40.7	78.3	23.4	168	73	66
63100	HAWKEYE LAKE	276	11.8	21.8	28.5	36.0	50.6	74.0	30.5	95	70	10
63200	MTC 615 JAMES ST S THUNDER BAY	353	0.6	10.0	18.6	26.2	36.1	57.1	19.4	77	61	0
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	338	5.1	14.7	22.4	29.1	38.6	68.0	23.3	87	64	16

TABLE A-21 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - OZONE		UNIT = PARTS/BILLION							RUN DATE SEP 19, 1989		
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES				ARITH- METIC			MAXIMUM		NO. OF TIMES ABOVE CRITERIA	
			10	30	50	70	90	99	MEAN	1HR	24HR	1HR	
75010	OPP STN NORTH BAY	357	8.2	19.0	26.0	32.1	45.4	83.7	27.8	109	81	119	
77016	WATER TANK, ASH ST SUDBURY	169	7.3	15.6	20.5	25.2	35.7	69.5	22.2	84	69	3	
77203	SCIENCE NORTH SUDBURY	332	11.2	21.0	27.7	33.8	47.1	81.2	29.5	113	79	91	

TABLE A-22 10-YEAR TREND FOR O₃

City	Annual Mean (ppb)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CORNWALL	23.4	24.8	22.7	21.5	22.7	27.6	25.8	22.8	20.8	24.0
ETOBICOKE	11.0	13.4	14.5	15.6	15.7	16.5	18.1	16.7	16.0	19.3
HAMILTON	15.3	17.4	16.3	16.9	18.7	18.0	19.0	16.4	16.2	17.9
HURON PARK	25.9	23.6	23.9	23.4	24.2	26.5	26.5	26.1	25.9	29.7
KITCHENER	20.5	20.7	18.8	17.8	18.9	18.3	19.9	17.0	17.1	21.6
LONDON	16.6	18.5	19.8	21.3	21.0	19.4	21.3	18.4	19.4	23.7
LONG POINT	30.5	32.7	31.3	34.1	29.9	31.2	34.4	31.4	31.7	38.4
MANDAMIN	27.2	22.3	23.4	22.5	19.1	25.9	27.9	23.1	25.9	30.0
MERLIN	24.7	23.6	23.8	25.3	22.6	21.0	22.0	19.8	27.3	31.5
MISSISSAUGA	15.3	15.7	14.4	14.2	16.6	15.4	16.0	15.7	14.5	17.7
NORTH YORK	13.1	16.3	15.6	14.5	18.3	15.5	11.8	7.4	8.9	9.0
OAKVILLE	-	23.0	17.3	16.0	18.1	16.7	19.6	18.5	19.8	20.9
OSHAWA	17.5	17.1	17.8	18.8	21.1	17.1	18.2	17.2	17.9	20.2
OTTAWA	17.2	15.4	15.2	17.1	17.6	17.8	19.2	17.3	16.1	20.7
SARNIA	23.2	21.6	21.3	22.7	23.0	23.3	22.9	20.9	21.8	22.6
SCARBORO	14.4	13.8	13.3	14.8	16.7	14.9	13.9	16.6	16.8	17.7
SIMCOE	28.1	26.3	28.9	32.3	30.0	28.7	30.6	27.6	28.4	31.2
ST CATHARINES	18.8	20.8	20.0	21.2	23.2	20.3	17.9	21.9	-	23.6
STOUFFVILLE	24.2	22.8	19.4	22.7	20.5	21.0	23.3	20.0	22.9	26.6
SUDBURY *	18.3	13.9	15.6	16.0	14.2	15.8	13.4	17.1	19.4	29.5
TIVERTON	24.2	24.2	29.0	26.8	27.3	27.3	34.6	27.5	33.0	34.6
TORONTO	17.3	16.4	15.7	15.3	14.3	16.7	17.1	16.2	15.4	17.5
WINDSOR	15.7	19.9	18.8	18.1	18.7	18.9	19.7	17.4	17.6	23.5

* change of location from Ash Street (77016) to Science Centre (77203)

TABLE A-23 TOTAL SUSPENDED PARTICULATE (TSP) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1988		POLLUTANT - SUSPENDED PARTICULATE			UNIT - MICROGRAMS/CU.METRE							JUL 25, 1989		
STATION NUMBER	LOCATION	NO OF SAMPLES	30	50	70	90	99	HAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR			
10015	PUC BLDG, 64 WEST ST	54	22	32	46	55	94	138	144	52	45	3	0	
11001	GODERICH 309 THOMAS ST	56	13	44	52	71	178	244	260	74	51	11	0	
12002	CITY HALL, 444 WINDSOR AV	54	35	47	57	76	110	135	139	65	60	4	0	
12005	7730 RIVERSIDE DR E	52	20	30	38	49	89	104	105	45	39	0	0	
12006	BEACH LANE/HWY 18	59	32	51	62	79	108	141	163	67	61	2	1	
12007	LA SALLE WRIGHT/WATER ST	57	45	61	75	90	123	163	175	80	75	7	1	
12008	467 UNIVERSITY AV W	340	35	49	63	78	113	155	189	69	62	22	1	
12009	9725 RIVERSIDE DR E	56	19	26	32	49	78	117	126	42	36	1	0	
12010	LITTLE RIVER SENAGE STN, HANNING RD	49	19	28	31	46	95	112	113	44	37	0	0	
12011	DROUILLARD RD/RICHMOND ST	29	34	43	59	71	93	123	130	60	56	1	INS	
12013	FILTRAT PLT,3665 WYANDOTTE ST E	54	34	50	77	124	193	268	279	98	79	18	1	
12015	WINDSOR SENAGE STN, HWY 18/PROSPECT	49	47	63	87	96	119	208	243	87	79	5	1	
12016	WINDSOR COLLEGE/SOUTH ST	57	38	52	63	81	121	162	168	71	64	6	1	
12036	WINDSOR 1802 GEORGE AV	55	39	43	59	72	102	121	122	63	58	1	0	
12037	WINDSOR 3225 CALIFORNIA ST	56	26	29	36	47	74	129	143	45	41	1	0	
12038	WINDSOR 2885 HOWARD AV	56	45	63	78	97	136	178	181	84	76	8	1	
12039	WINDSOR DOUGLAS ST/E.C. ROW W	59	32	46	62	73	104	154	180	65	58	2	0	
12047	WINDSOR DORWIN PLAZA, DOUGALL AV	56	31	39	53	63	98	133	139	58	53	3	0	
12049	WINDSOR 643 ALEXANDRINE	60	33	41	53	66	103	137	141	60	54	4	0	
12051	WINDSOR 604 CAPITOL/REXINGTON	56	40	54	66	77	135	192	205	76	68	7	1	
12053	WINDSOR 415 FRONT ST	57	26	35	43	61	91	124	130	51	45	1	0	
13003	AMHERSTBURG POST OFFICE, 10 CENTRE ST	58	28	40	47	59	86	124	135	54	50	1	0	
14001	CHATHAM GENERAL HOSPITAL, 220 MITTON ST	56	17	24	31	40	71	110	117	38	33	0	0	
14016	SARNIA HWY40 (OPP LANBTON GS)	350	16	25	34	46	71	107	116	39	34	0	0	
14030	COURTRIGHT PRL (W OF HOUSE)	56	18	26	32	45	82	128	130	42	35	2	0	
14031	CORUNNA PRL (W OF BARN)	55	13	19	23	33	71	102	121	33	27	1	0	
	MOORETOWN													

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1988
POLLUTANT - SUSPENDED PARTICULATE

UNIT - MICROGRAMS/CU.METRE

RUN DATE
JUL 25, 1989

STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES					MAX	ARITH MEAN	SEMI MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR		
			10	30	50	70	90						
14054	SARNIA YACHT CLUB, POINT EDWARD	59	10	24	31	43	80	114	125	40	34	1	0
14059	ST CLAIR BLVD/HWY 40	58	15	19	27	38	57	103	104	33	29	0	0
14064	CORUNA CENTENNIAL PK.FRONT ST/CN TRACKS	58	23	30	38	56	80	144	208	49	42	1	0
14151	SARNIA DAVID/FRONT ST	55	23	34	42	70	119	242	300	62	49	6	0
14152	SARNIA CHRISTINA/EXMOUTH ST	116	38	49	65	92	135	373	467	83	69	19	1
14153	704 MARA ST POINT EDWARD	115	23	33	43	60	115	149	158	56	47	9	0
15001	WRII FAIR GROUNDS, KING/RECTORY LONDON	60	27	40	53	80	104	157	157	64	54	4	0
15006	16 ALEXANDRIA ST	37	21	39	50	75	134	225	254	70	54	8	INS
15008	EDGEMARE RD (NNW VARTA PLT)	56	15	23	33	43	69	148	163	40	32	2	0
15009	LONGHOODS CONSERVATION AUTHORITY	76	12	18	24	37	71	96	98	34	27	0	0
15014	POND HILLS RD/DEVERON CRES LONDON	57	27	36	50	67	100	134	146	55	48	2	0
15015	951 COMMISSIONERS RD E LONDON	58	17	28	34	42	61	99	100	38	34	0	0
15016	801 COMMISSIONERS RD E LONDON	59	16	27	36	44	68	115	135	40	34	1	0
15017	8 MOUNTSFIELD DR LONDON	56	23	32	45	50	89	114	116	48	42	0	0
15116	801 COMMISSIONERS RD E LONDON	57	23	32	43	55	93	138	143	50	43	3	0
17006	ST ANTHONY'S SS, HWY 2 BEACHVILLE	52	33	46	63	83	167	299	420	83	67	8	1
17020	HWY 2 RR 2 (J SPRIEL PROP)	54	31	46	63	89	107	255	323	75	63	5	1
17021	INGERSOLL OXFORD CTY RD 6 (HESSTON FARM)	69	31	53	76	100	136	220	258	82	70	11	1
22087	JARVIS COMMUNITY CENTRE,JAMES ST JARVIS	57	21	33	42	59	84	118	124	49	43	1	0
22090	ST GEORGE/ALMA PORT DOVER	48	15	29	41	56	81	115	120	46	38	0	0
22092	RAINHAM RD/SANDUSK RD JARVIS	45	19	25	34	42	59	106	120	38	33	0	0
22095	HWY 6 (SEHINGTON PROP)	36	26	34	56	69	85	149	186	57	50	1	INS
22096	ALMA/LAIDLAW ST HAGERSVILLE	38	23	32	45	58	81	95	96	48	42	0	INS
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	47	13	20	29	38	57	97	104	33	28	0	0
22907	RAINHAM RD (NEAR STELCO GATE)	57	32	44	55	81	111	199	234	68	59	5	0
22961	NANTICOKE RD/WALPOLE CON 2 NANTICOKE	51	21	32	39	50	81	148	165	48	41	3	0

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1988

POLLUTANT - SUSPENDED PARTICULATE

UNIT - MICROGRAMS/CU.METRE

RUN DATE
JUL 25, 1989

STATION NUMBER	LOCATION	NO OF SAMPLES	30	PERCENTILES			99	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR			
			50	70	90								
22964	N 2 KM NANTICOKE GS												
22965	NANTICOKE	57	18	26	37	43	68	97	102	39	34	0	0
22965	HWY 6/NORFOLK CON 2	57	16	25	38	51	66	84	87	40	35	0	0
26029	JARVIS	60	31	48	59	86	121	186	243	71	62	6	1
26048	EDNA/FREDERICK STS	52	12	23	28	41	87	108	121	39	31	1	0
26048	KITCHENER	59	24	36	49	56	84	138	145	52	46	2	0
26048	MONO-HULAR SCHOOL	51	32	39	47	60	82	159	171	57	51	4	0
26048	HWY89/VIOLET HILL	53	24	37	47	59	85	131	138	52	46	3	0
27000	71 KING ST	55	47	65	77	105	148	185	188	90	80	12	1
27000	ST CATHARINES	25	35	43	53	69	97	111	114	59	55	0	INS
27045	337 ALBERTA/DEVON ST	44	49	77	102	181	260	497	544	146	114	20	1
27045	WELLAND	55	51	65	84	116	171	378	392	114	95	16	1
27047	DAVIS/FRAZER	57	25	37	44	52	78	102	116	47	43	0	0
27050	PORT COLBORNE	60	28	43	56	75	127	180	200	67	57	7	0
27050	4057 VICTORIA AV	53	17	29	40	53	76	130	144	46	39	1	0
27051	NIAGARA FALLS	333	37	53	67	88	125	203	223	76	68	42	1
27051	HOLY T CHURCH, NORTON/PORTAGE	50	24	38	51	67	91	122	132	55	49	1	0
27052	CHIPPAWA	57	58	78	92	125	161	232	236	106	98	18	1
27052	185 QUEEN ST S	57	31	41	50	74	108	147	150	64	56	5	0
27055	SIP GROUNDS, STANLEY AV	56	45	57	75	113	148	204	220	90	80	13	1
27056	NIAGARA FALLS	55	50	66	76	95	144	194	197	88	81	9	1
27056	ALLENDALE AV	58	25	38	45	60	97	122	124	53	48	1	0
28027	NIAGARA FALLS	55	31	39	55	66	92	118	135	57	52	1	0
28027	HAMILTON EXPWY/SPEED RIVER	52	35	50	66	81	110	168	173	71	63	4	1
28028	GUELPH	58	19	33	47	65	92	133	138	52	44	2	0
28028	EXHIBITION ST/CLARK ST	321	39	60	80	102	142	246	286	87	77	63	1
28028	GUELPH	56	45	75	101	141	269	587	762	141	108	21	1
29000	ELGIN/KELLY ST												
29000	HAMILTON												
29009	KENILWORTH												
29009	HAMILTON												
29011	BURLINGTON/LEEDS												
29011	HAMILTON												
29012	BURLINGTON/WELLINGTON												
29012	HAMILTON												
29017	CHATHAM/FRID												
29017	HAMILTON												
29025	BARTON/WENTWORTH												
29025	HAMILTON												
29067	450 HUGHSON ST N												
29067	HAMILTON												
29087	405 CUMBERLAND AV												
29087	HAMILTON												
29089	BARTON/HASH RD												
29089	HAMILTON												
29098	BAY/HAIN ST												
29098	HAMILTON												
29102	467 BEACH BLVD												
29102	HAMILTON												
29111	OFFIELD RD/HWY 5												
29111	GREENSVILLE												

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1988

POLLUTANT - SUSPENDED PARTICULATE

UNIT - MICROGRAMS/CU. METRE

RUN DATE
JUL 25, 1989

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR
			10	30	50	70	90	99	MAX			
29112	HARVEST RD/WESITE GREENSVILLE	48	15	29	40	50	100	163	173	50	39	2
29113	GERTRUDE/DEPEN HAMILTON	56	44	60	82	104	155	188	189	91	81	13
29114	VICKERS RD/EAST 16TH ST HAMILTON	47	24	40	48	63	87	98	102	53	48	0
29118	MAIN ST W/HWY 403 HAMILTON	52	23	32	42	52	84	127	154	48	43	1
29119	MORLEY ST/PARKDALE AV HAMILTON	55	52	77	89	108	171	223	225	100	92	12
29122	DUNDURN/YORK HAMILTON	53	23	37	46	56	76	103	108	47	43	0
29130	EMEN RD/WHITNEY AV HAMILTON	54	20	29	38	53	90	180	222	51	42	4
29135	ALDRIGHT RD/MT ALBION RD HAMILTON	54	18	28	36	45	66	90	93	39	34	0
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	320	30	42	55	71	112	245	390	67	56	27
31058	MOSLEY/LESLIE STS TORONTO	291	43	59	74	92	133	239	288	84	75	42
31065	633 EASTERN AV TORONTO	339	41	60	76	92	138	273	521	85	75	47
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	328	38	52	66	85	120	207	243	75	66	33
31085	TEGUNSETH/NIAGARA ST TORONTO	333	40	55	70	88	126	218	253	79	70	42
31104	26 BROADALBANE TORONTO	340	35	48	56	67	104	164	180	63	58	19
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	111	25	37	44	54	75	117	125	49	44	1
31181	60 BATHURST ST TORONTO	331	34	50	68	84	120	214	224	73	63	32
31183	FORT YORK TORONTO	337	37	52	64	84	120	186	285	73	65	33
32010	LEASTIDE HYDRO STATION EAST YORK	101	28	41	53	64	103	154	175	60	53	5
33003	LAWRENCE/KEENEY SCARBORO	114	31	41	51	63	87	117	129	55	51	1
34025	35 EDGAR AVE NORTH YORK WEST	29	21	43	52	64	94	110	113	55	49	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	88	19	31	43	57	116	201	260	55	43	7
35033	ETOBICOKE ETOBICOKE	113	40	56	66	78	115	166	181	71	66	10
35051	REOURCES RD (MOL LAB) 2485 LAKESHORE E/BIRKBEAK RDS OAKVILLE	343	28	43	53	68	94	148	200	59	53	12
44005	HWY2/NORTH SHORE BLVD E BURLINGTON	192	21	28	41	58	109	301	350	56	44	14
44000	BRONTE RD/MOBBURN CRES OAKVILLE	116	23	33	42	54	81	112	122	47	42	1
44015		120	23	34	44	54	82	148	173	50	44	4

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													JUL 25, 1989	
YEAR - 1988			POLLUTANT - SUSPENDED PARTICULATE			UNIT - MICROGRAMS/CU.METRE							NO OF TIMES ABOVE CRITERIA 24-HR 1-YR	
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES			MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR					
			50	70	90				24-HR 1-YR	1-YR				
45001	FIRE HALL, BAYLY/BROCK PICKERING	342	27	41	53	69	99	161	580	61	52	15	0	
45007	AJAX-PICKERING HOSP	178	23	32	40	52	78	116	173	47	41	1	0	
45025	PS, RITSON RD/OLIVE AV	113	25	38	50	61	91	130	173	54	48	4	0	
45080	OSHANA FINLEY RD, ANIMAL HOSPITAL	92	42	64	78	109	152	204	236	90	80	21	1	
45081	AJAX 65 HARWOOD AVE, AJAX WORKS DEPT	93	30	45	60	80	117	159	208	69	60	8	0	
46033	AJAX FIRE HALL, BRAHALEA RD	56	30	45	61	81	112	186	243	69	60	5	0	
46041	2414 DIXIE RD	330	39	52	68	86	113	175	207	74	67	28	1	
46045	MISSISSAUGA 2365 DIXIE RD	328	34	52	64	82	116	180	226	72	64	28	1	
46046	MISSISSAUGA 2360 DIXIE RD	318	31	45	56	73	114	178	223	65	58	29	0	
46110	MISSISSAUGA QUEENSWAY W/HURONTARIO ST	119	30	40	53	72	95	149	195	60	54	4	0	
47019	MISSISSAUGA POST OFFICE, 17-25 PETER ST S	32	27	36	46	57	112	138	149	55	48	1	INS	
47042	ORILLIA ARHOURY BLDG, PARK/PARKSIDE ST	62	20	26	33	38	59	87	87	37	34	0	0	
48002	BARRIE HWY47/E OF HWY48	112	21	29	37	47	76	95	131	42	37	1	0	
48140	STOUFFVILLE CON 5 (BROWN PROP)	85	14	22	35	59	103	200	647	54	37	6	0	
48141	RAVENSHOE RR2 (INGHAM PROP)	90	11	17	24	34	69	128	130	33	26	2	0	
48142	KESWICK RR2 (CALDERARO PROP)	95	17	26	34	48	84	131	193	45	36	2	0	
49011	KESWICK HWY 117/BELLWOOD ACRES	183	4	7	10	17	35	64	71	16	11	0	0	
58027	DORSET HWY 51 SHUTER ST	91	14	22	29	39	78	156	178	38	30	2	0	
58041	FILT PLT, HARSH ST	95	13	25	36	47	90	146	207	46	36	7	0	
58042	FORT HOPE FORT HOPE	93	20	27	35	48	86	130	198	45	38	2	0	
61015	CAN TIRE, QUEEN ST	48	17	26	45	58	147	207	210	60	42	7	0	
61027	PORT HOPE 18 YOUNG STREET	30	12	21	25	39	66	97	106	34	27	0	INS	
62013	RED LAKE 35 VAN HORNE AV	52	12	18	27	45	59	97	125	33	27	1	0	
62030	DRYDEN WEATHER STN	54	24	38	55	78	105	146	159	62	51	4	0	
62032	ATIKOKAN PORTAGE/CHURCH ST	58	12	19	25	36	55	83	87	31	26	0	0	
63005	FORT FRANCES CEMETERY-COLONIZATION RD W	55	22	27	36	51	65	98	102	41	37	0	0	
	FORT FRANCES HOSP, ARCHIBALD/ARTHUR STS													
	THUNDER BAY													

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											RUN DATE JUL 25, 1989	
YEAR - 1988		POLLUTANT - SUSPENDED PARTICULATE			UNIT - MICROGRAMS/CU. METRE							
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES			99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR
					50	70	90					
63012	DAWSON CT/ALGOMA ST N	57	20	26	36	46	65	98	126	39	34	1
63022	THUNDER BAY HOSPITAL, 35 ALGOMA ST N	56	19	28	38	46	62	96	97	40	36	0
63046	THUNDER BAY CAN-CAR, MONTREAL ST	57	23	42	61	86	190	422	644	90	63	11
63052	THUNDER BAY TRNSIT MAINT BD, WILLIAM RD	56	21	32	41	61	86	126	153	50	43	1
63200	THUNDER BAY MTC 615 JAMES ST S	58	18	30	39	53	68	117	129	43	37	1
63301	THUNDER BAY SEWAGE TREATMENT PLANT	61	18	27	36	51	62	83	84	40	35	0
63303	THUNDER BAY THUNDER BAY TERMINALS #3	61	25	38	52	66	89	175	311	59	50	1
71042	PUNPHOUSE, BONNEY ST SAULT STE MARIE	267	27	47	83	139	237	344	388	108	79	96
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	59	21	26	34	46	69	92	121	39	35	1
71065	HOSPITAL, LAKESHORE AV BLIND RIVER	53	14	19	26	32	50	91	95	30	24	0
71068	WM. MERRIFIELD SCHOOL SAULT STE MARIE	114	12	21	31	50	79	164	184	42	32	6
71071	BOUNDARY RD/BENNETT SAULT STE MARIE	29	14	21	28	39	55	69	69	31	27	0
71072	FIRST AV/SECOND LINE SAULT STE MARIE	109	17	24	34	44	75	131	145	40	33	3
72077	MINISTRY OF HEALTH BLDG TIMHINS	42	17	24	34	51	79	123	129	43	35	1
72080	CUSTOM SAWMILL RD (LEBLANC PROP) HEARST	114	12	22	42	78	183	538	710	79	45	19
75010	OPP. STN NORTH BAY	36	17	22	26	35	48	97	114	32	28	0
77016	WATER TANK, ASH ST SUDBURY	56	13	20	25	32	52	78	94	29	25	0
77026	19 LISGAR ST SUDBURY	54	17	23	28	38	55	91	109	33	30	0
77029	POST OFFICE, SPRUCE/BARBER ST ESPANOLA	58	18	28	38	49	76	115	116	43	37	0
77070	PUNPHOUSE, NICKEL ST COPPER CLIFF	59	17	23	32	39	71	113	124	37	31	1
77214	ESPANOLA	274	17	29	40	57	100	143	224	50	41	9
77215	ESPANOLA	129	19	29	43	58	97	199	267	52	42	4

TABLE A-24 10-YEAR TREND FOR TSP

City	Annual Geometric Mean (ug/m3)											
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988		
ATIKOKAN	36	39	26	20	21	23	23	22	26	27		
BRAMALEA	67	60	53	61	65	66	62	59	63	60		
BURLINGTON	61	49	45	46	49	57	53	45	50	42		
CHATHAM	70	75	65	48	45	41	43	45	51	50		
COURTRIGHT	49	48	32	36	33	37	34	36	34	34		
ESAPANOLA	68	65	59	45	46	45	42	37	40	37		
ETOBICOKE	84	83	91	74	53	59	58	61	62	43		
FORT FRANCES	39	40	39	32	33	32	26	29	29	26		
HAMILTON	100	88	72	81	75	81	71	76	77	81		
KITCHENER	80	64	64	54	51	58	46	56	61	62		
LONDON	76	83	58	51	52	55	42	50	65	54		
MISSISSAUGA	70	70	73	62	60	68	55	53	56	54		
NORTH BAY	34	46	37	34	33	37	25	29	28	28		
NORTH YORK	52	48	44	43	38	39	40	40	40	49		
OAKVILLE	47	62	50	45	40	47	43	43	45	44		
ORILLIA	50	50	44	59	42	43	42	40	41	64		
OSHAWA	62	58	54	47	42	44	41	43	51	48		
PICKERING	44	49	50	48	41	47	49	47	44	52		
PORT HOPE	53	33	34	36	30	46	45	31	31	30		
S.S.MARIE	53	62	45	40	35	37	36	34	35	35		
SARNIA	66	76	62	58	59	45	46	45	42	42		
SCARBORO	70	70	59	57	51	60	53	55	53	51		
ST CATHARINES	67	62	57	56	68	58	50	60	47	46		
ST THOMAS	102	80	61	55	57	59	56	51	65	54		
SUDBURY	37	42	40	34	28	28	26	29	31	25		
THUNDER BAY	51	51	52	39	35	44	36	40	35	37		
TORONTO	72	67	58	55	54	54	50	51	52	58		
WELLAND	76	67	57	42	51	57	49	54	45	46		
WINDSOR	80	77	69	62	53	50	50	61	58	60		

TABLE A-25 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE

NOV 21, 1989

YEAR - 1988

POLLUTANT - LEAD

UNIT - .01 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR		
			10	30	50	70	90					
15116	801 COMMISSIONERS RD E LONDON	57	1	2	3	4	6	9	10	3	2	0
22907	RAITHAM RD (NEAR STELCO GATE) NAITCOKE	57	2	3	4	5	8	14	18	4	3	0
26029	EDNA/FREDERICK STS KITCHENER	60	4	6	8	15	25	35	38	12	10	0
27008	71 KING ST ST CATHARINES	59	2	3	4	5	7	9	10	4	4	0
28028	EXHIBITION ST/CLARK ST GUELPH	53	1	1	1	4	7	8	9	2	1	0
29011	BURLINGTON/LEEDS HAMILTON	52	8	12	19	24	38	79	84	22	18	0
29012	BURLINGTON/WELLINGTON HAMILTON	56	3	5	6	10	14	25	31	8	6	0
29017	CHATHAM/FRID HAMILTON	54	2	4	5	7	14	34	52	8	6	0
29025	BARTON/MENTWORTH HAMILTON	43	6	8	11	15	26	41	44	14	12	0
29067	450 HUGHSON ST N HAMILTON	54	3	4	6	9	13	18	19	7	6	0
29098	BAY/MAIN ST HAMILTON	51	2	3	5	8	13	25	29	7	5	0
29102	467 BEACH BLVD HAMILTON	63	4	7	10	14	18	28	31	11	9	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	46	2	3	3	5	7	17	17	4	4	0
31045	BRUCE PS, 51 LARCHMOUNT AV TORONTO	321	10	10	10	20	30	60	90	10	10	0
31058	MOSLEY/LESLIE STS TORONTO	293	20	30	50	100	200	460	710	80	50	3
31065	633 EASTERN AV TORONTO	339	10	20	30	50	130	330	490	50	30	0
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	327	1	7	10	15	22	32	36	11	8	0
31085	TECUMSETH/NIAGARA ST TORONTO	333	2	4	8	17	49	243	404	23	9	0
31104	26 BREADALBANE TORONTO	340	3	5	7	9	14	24	51	8	7	0
31120	PERTH/RUSKIN (JUNCTION TRIANGLE) TORONTO	111	1	3	4	7	10	14	22	5	3	0
31181	60 BATHURST ST TORONTO	331	1	2	4	7	21	43	68	8	3	0
31183	FORT YORK TORONTO	337	1	1	2	4	16	48	400	6	2	0
32010	LEASIDE HYDRO STATION EAST YORK	101	1	5	7	10	15	29	36	8	5	0
33003	LAWRENCE/KENNEDY SCARBORO	116	1	5	7	10	14	21	27	8	5	0
34025	35 EDGAR AVE NORTH YORK WEST	29	1	1	2	7	15	21	23	5	2	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	88	1	2	4	6	9	16	25	5	3	0

TABLE A-26 10-YEAR TREND FOR Pb

City	Annual Geometric mean (ug/m3)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
BRAMALEA	.3	.2	.2	.3	.3	.2	.2	.2	.1	.04
CHATHAM	.3	.3	.2	.2	.2	.2	.1	.1	.1	.04
ETOBICOKE	.2	.1	.2	.3	.3	.2	.2	.2	.1	.03
HAMILTON	.6	.5	.6	.4	.4	.4	.3	.3	.2	.12
LONDON	.5	.4	.3	.3	.3	.3	.2	.1	.1	.07
MISSISSAUGA	.4	.3	.4	.3	.3	.3	.2	.2	.1	.03
NORTH BAY	.2	.2	.2	.2	.2	.1	.1	.1	.1	.02
NORTH YORK	.6	.4	.4	.3	.3	.3	.2	.2	.1	.02
OSHAWA	.4	.3	.2	.2	.2	.2	.2	.1	.1	.03
S. S. MARIE	.4	.3	.2	.1	.2	.2	.2	.1	.1	.03
SARNIA	.2	.1	.1	.1	.2	.1	.1	.1	.0	.03
SCARBORO	.4	.3	.3	.3	.3	.4	.3	.2	.1	.05
SUDBURY	.1	.1	.2	.1	.1	.1	.1	.1	.1	.03
THUNDER BAY	.2	.1	.2	.2	.2	.2	.1	.1	.1	.05
TORONTO	.4	.3	.4	.2	.3	.3	.2	.1	.1	.07
WINDSOR	.3	.3	.2	.2	.2	.2	.2	.2	.1	.05

* In 1989 lead reported to .01 ug/m3

TABLE A-27 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
YEAR - 1988										JUL 25, 1989	
POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE										UNIT - .01 MICROGRAMS/CU.METRE	
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90				
27008	71 KING ST	59	4	6	8	9	11	15	8	7	0
29011	ST CATHARINES										
	BURLINGTON/LEEDS										
29012	HAMILTON	52	6	7	9	11	15	19	20	10	9
	BURLINGTON/WELLINGTON										
29017	HAMILTON	56	5	7	8	10	15	32	44	9	8
	CHATHAM/FRID										
29025	HAMILTON	54	6	8	9	11	14	17	18	10	9
	BARTON/WENTWORTH										
29067	HAMILTON	43	4	6	8	11	18	24	26	9	8
	450 HUGHSON ST N										
29098	HAMILTON	54	4	6	9	11	14	23	31	9	8
	BAY/MAIN ST										
29102	HAMILTON	51	2	4	5	7	10	24	32	6	5
	467 BEACH BLVD										
29114	HAMILTON	63	5	7	10	12	16	30	31	11	9
	VICKERS RD/EAST 18TH ST										
31104	HAMILTON	44	2	3	4	5	6	8	9	4	4
	26 BREADALBANE										
31120	TORONTO	340	5	7	9	13	27	58	73	13	10
	PERTH/RUSKIN(JUNCTION TRIANGLE)										
44005	TORONTO	111	4	7	13	18	31	50	59	15	11
	2487 LAKESHORE E/BIRKBANK RDS										
45000	OAKVILLE	192	2	3	5	8	16	27	35	7	5
	FINLEY RD, ANIMAL HOSPITAL										
45081	AJAX	92	5	8	10	18	25	41	66	14	11
	65 HARMWOOD AVE, AJAX WORKS DEPT										
63005	AJAX	83	3	5	8	11	17	30	32	10	8
	HOSP, ARCHIBALD/ARTHUR STS										
63022	THUNDER BAY	55	2	2	4	7	11	36	63	6	4
	HOSPITAL, 35 ALGOMA ST N										
71042	THUNDER BAY	56	3	3	4	5	6	10	11	4	4
	PUNPHOUSE, BONNEY ST										
71049	SAULT STE MARIE	267	2	3	5	10	18	25	44	8	5
	LAND OFFICE, QUEEN ST										
71068	SAULT STE MARIE	59	3	4	6	9	12	15	15	7	6
	WH. HERRIFIELD SCHOOL										
71071	SAULT STE MARIE	114	2	3	5	7	10	16	19	6	5
	BOUNDARY RD/BENNET										
71072	SAULT STE MARIE	29	4	6	8	13	19	28	30	10	9
	FIRST AV/SECOND LINE										
72077	SAULT STE MARIE	109	5	10	15	21	36	45	52	17	13
	MINISTRY OF HEALTH BLDG										
75010	THIMINS	40	3	5	6	8	13	21	22	7	6
	OPP STN										
77016	NORTH BAY	36	5	9	12	15	22	41	44	14	11
	WATER TANK, ASH ST										
77026	SUDBURY	56	12	15	23	35	51	93	111	29	23
	19 LISGAR ST										
77070	SUDBURY	54	3	5	11	19	31	46	53	14	10
	PUNPHOUSE, NICKEL ST										
	COPPER CLIFF	59	10	14	19	21	37	117	162	29	22

TABLE A-28 10-YEAR TREND FOR Cu

City	Annual geometric mean (ug/m ³)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CHATHAM	.05	.04	.10	.23	.18	.10	.11	.13	.15	.03
HAMILTON	.29	.19	.22	.23	.32	.30	.23	.15	.15	.08
LONDON	.26	.18	.30	.13	.33	.21	.16	.13	.28	.07
NORTH BAY	.38	.43	.40	.38	.22	.20	.15	.13	.18	.11
S.S.MARIE	.65	.55	.20	.13	.26	.14	.16	.14	.12	.06
SUDBURY	.33	.48	.24	.24	.39	.30	.37	.37	.33	.23
THUNDER BAY	.06	.09	.11	.08	.18	.19	.19	.07	.06	.04
TORONTO	.17	-	.10	.12	.16	.15	.12	.11	.12	.10
WINDSOR	.07	.04	.02	.05	.05	.05	.09	.25	.15	.06

TABLE A-29 IRON (Fe) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH
 JUL 25, 1989

YEAR - 1988	POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE	UNIT - .1 MICROGRAMS/CU. METRE	STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
12002	CITY HALL, 444 WINDSOR AV		12002	CITY HALL, 444 WINDSOR AV	53	7	9	13	18	36	62	69	17	14
12005	WINDSOR		12005	WINDSOR	52	4	5	8	13	23	35	36	11	8
12007	7730 RIVERSIDE DR E		12007	WRIGHT/WATER ST	57	12	20	29	51	73	85	85	37	30
12008	WINDSOR		12008	467 UNIVERSITY AV W	340	7	11	16	22	34	60	133	19	15
12010	WINDSOR		12010	SENAGE STN, HANING RD	49	3	3	7	9	19	26	26	9	6
12011	WINDSOR		12011	DOUGILLARD RD/RICHMOND ST	29	10	16	25	30	41	69	78	25	21
12013	WINDSOR		12013	FILTRAT PLY, 3665 WYANDOTTE ST E	54	10	16	25	60	144	210	216	53	31
12015	WINDSOR		12015	SENAGE STN, HWY 18/PROSPECT	49	12	16	23	34	53	71	75	28	24
12016	WINDSOR		12016	COLLEGE/SOUTH ST	56	10	15	22	31	46	63	69	26	22
12038	WINDSOR		12038	2885 HOWARD AV	57	18	31	51	85	174	245	312	73	53
12039	WINDSOR		12039	DOUGLAS ST/E.C. ROW W	59	8	12	17	20	30	60	61	18	16
12047	WINDSOR		12047	DORWIN PLAZA, DOUGALL AV	56	7	11	14	19	27	50	53	17	14
12049	WINDSOR		12049	643 ALEXANDRINE	61	6	9	13	18	29	48	70	16	13
12051	WINDSOR		12051	604 CAPITOL/REHINGTON	56	7	11	15	27	49	63	65	23	17
13003	WINDSOR		13003	POST OFFICE, 10 CENTRE ST	58	3	5	6	8	12	17	17	7	6
14016	CHATHAM		14016	HWY 40 (OPP LAMBYTON GS)	350	2	3	4	6	11	18	26	5	4
14030	COURTRIGHT		14030	RRI (W OF HOUSE)	56	1	2	3	5	13	22	25	5	3
14031	CORUNNA		14031	RRI (W OF BARN)	55	1	2	3	5	11	28	43	5	3
14064	MOORETOWN		14064	CENTENNIAL PK, FRONT ST/CN TRACKS	58	2	3	6	8	13	30	39	7	5
14152	SARNIA		14152	CHRISTINA/EXMOUTH ST	115	4	9	13	21	63	219	267	26	14
14153	SARNIA		14153	704 HARA ST POINT EDWARD	115	3	4	6	11	22	64	73	11	7
15001	SARNIA		15001	WRN FAIR GROUNDS, KING/RECTORY	60	4	6	7	10	15	27	27	9	7
15009	LONDON		15009	LONGWOODS CONSERVATION AUTHORITY	65	1	2	3	6	11	16	18	5	3
15014	POND MILLS RD/DEVERON CRES		15014	POND MILLS RD/DEVERON CRES	57	2	4	6	9	16	28	32	8	6
15015	LONDON		15015	951 COMMISSIONERS RD E	58	2	2	4	5	9	18	18	5	4
15016	LONDON		15016	801 COMMISSIONERS RD E	59	1	2	4	5	13	19	20	5	4

TABLE A-29 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 25, 1989

YEAR - 1988

POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE

UNIT - .1 MICROGRAMS/CU. METRE

STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES							ARITH MEAN		GEOM MEAN
			10	30	50	70	90	99	MAX			
15017	8 HOUNTSFIELD DR LONDON	56	2	4	5	7	12	17	17	6	5	
15116	801 COMMISSIONERS RD E LONDON	57	2	3	5	7	12	20	21	6	5	
22907	RAITHAM RD (NEAR STELCO GATE) NANTICOKE	57	11	21	32	54	90	174	193	45	32	
26029	EDNA/FREDERICK STS KITCHENER	60	3	6	9	14	19	34	52	11	8	
27008	71 KING ST ST CATHARINES	59	3	4	7	9	15	25	31	8	7	
29011	BURLINGTON/LEEDS HAMILTON	52	23	35	54	82	115	187	214	65	54	
29012	BURLINGTON/WELLINGTON HAMILTON	56	5	10	13	22	41	76	80	20	15	
29017	CHATHAM/FRID HAMILTON	54	9	16	22	30	47	72	74	26	22	
29025	BARTON/WENTWORTH HAMILTON	43	9	15	21	51	100	151	176	41	27	
29067	450 HUGHSON ST N HAMILTON	54	4	7	12	16	36	70	72	17	12	
29098	BAY/MAIN ST HAMILTON	51	3	6	10	22	54	92	97	22	12	
29102	467 BEACH BLVD HAMILTON	63	15	32	44	63	84	131	149	50	40	
29114	VICKERS RD/EAST 10TH ST HAMILTON	44	3	4	7	12	26	56	56	12	8	
31104	26 BREADALBANE TORONTO	340	5	7	9	12	17	31	35	10	9	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	111	3	6	7	11	16	27	34	9	8	
44005	2487 LAKESHORE E/BIRKBANK RDS OAKVILLE	192	3	3	5	8	14	41	48	7	6	
45080	FINLEY RD, ANIMAL HOSPITAL AJAX	92	5	8	11	16	28	42	42	14	11	
45081	65 HARMOOD AVE, AJAX WORKS DEPT AJAX	83	3	5	8	11	20	26	27	10	8	
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	55	2	6	11	18	28	42	49	14	10	
63022	HOSPITAL, 35 ALGOHA ST N THUNDER BAY	56	2	6	10	14	18	42	47	11	7	
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	267	15	26	55	107	226	500	647	96	52	
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	59	3	7	9	14	27	35	37	12	9	
71068	WM. HERRIFIELD SCHOOL SAULT STE MARIE	114	2	5	9	18	61	109	133	20	10	
71071	BOUNDARY RD/BENNETT SAULT STE MARIE	29	1	1	3	5	14	17	18	5	3	
71072	FIRST AV/SECOND LINE SAULT STE MARIE	109	2	4	7	12	23	62	64	11	7	
72077	MINISTRY OF HEALTH BLDG TIMMINS	40	1	3	5	11	21	42	49	9	5	

TABLE A-29 (Cont.)

YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
	POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE				UNIT - .1 MICROGRAMS/CU.METRE						JUL 25, 1989	
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	
			10	30	50	70	90	99	MAX			
75010	OPP STN	36	1	3	4	5	9	19	22	5	4	
77016	NORTH BAY WATER TANK, ASH ST	56	3	4	7	10	19	41	74	10	7	
77026	SUDBURY 19 LISGAR ST	54	3	6	7	11	22	47	70	11	8	
77070	SUDBURY PUMPHOUSE, NICKEL ST COPPER CLIFF	59	3	5	9	15	23	59	63	13	9	

TABLE A-30 10-YEAR TREND FOR (Fe)

City	Annual geometric mean (ug/m ³)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CHATHAM	.9	1.1	.8	.6	.7	.5	.6	.5	.7	0.6
HAMILTON	2.9	2.6	2.3	2.5	2.2	2.3	1.9	2.8	2.5	2.7
LONDON	1.4	1.0	.7	.5	.6	.6	.5	.4	.8	0.7
NORTH BAY	.2	.6	.4	.5	.2	.3	.3	.1	.4	0.4
S.S.MARIE	1.5	1.9	1.2	.5	.5	.7	1.2	.5	1.1	0.9
SUDBURY	.6	.9	1.0	.7	.7	.5	.6	.5	.9	0.7
THUNDER BAY	1.6	1.3	1.0	1.0	.9	1.2	.8	1.0	1.0	1.0
TORONTO	.8	.6	.9	.7	.8	.8	.7	.6	.8	0.9
WINDSOR	1.7	1.2	1.4	1.2	1.1	1.1	1.0	1.0	1.5	1.4

TABLE A-31 MANGANESE (Mn) STATISTICS (1988)

YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
	POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE										JUL 25, 1989	
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES								ARITH MEAN	TIMES ABOVE CRITERIA 24-HR
			10	30	50	70	90	99	MAX			
12002	CITY HALL, 444 WINDSOR AV	53	30	40	50	80	136	217	250	68	55	0
12005	WINDSOR											
12005	7730 RIVERSIDE DR E	52	20	20	30	60	90	120	120	43	33	0
12008	WINDSOR											
12008	467 UNIVERSITY AV W	340	20	40	60	80	140	248	350	72	57	0
12010	WINDSOR											
12010	SEWAGE STN, HANNING RD	49	10	10	20	30	80	136	170	32	22	0
12011	WINDSOR											
12011	DROUILLARD RD/RICHMOND ST	29	30	54	90	112	162	292	310	97	78	0
12013	WINDSOR											
12013	FILTRAT PLT,3665 WYANDOTTE ST E	54	40	60	110	312	861	1302	1350	289	141	0
12015	WINDSOR											
12015	SEWAGE STN, HWY 18/PROSPECT	50	50	60	95	140	180	220	220	106	92	0
12038	WINDSOR											
12038	2885 HOWARD AV	57	40	68	90	150	214	279	290	113	94	0
12039	WINDSOR											
12039	DOUGLAS ST/E.C. ROW W	59	40	50	60	80	120	140	140	69	64	0
12047	WINDSOR											
12047	DORWIN PLAZA, DOUGALL AV	56	30	40	50	70	110	144	150	60	52	0
12049	WINDSOR											
12049	643 ALEXANDRINE	61	20	30	40	60	100	141	160	54	45	0
12051	WINDSOR											
12051	604 CAPITOL/REMINOTON	56	20	30	50	80	120	143	160	62	50	0
13003	WINDSOR											
13003	POST OFFICE, 10 CENTRE ST	58	10	20	20	20	50	74	80	25	22	0
14016	CHATHAM											
14016	HWY40 (OPP LANBTON GS)	350	5	10	10	20	30	50	70	17	13	0
14030	COURTTRIGHT											
14030	RR1 (W OF HOUSE)	56	5	5	12	20	40	54	60	17	12	0
14031	WINDSOR											
14031	RR1 (W OF BARN)	55	5	5	10	20	30	44	50	14	11	0
14064	WINDSOR											
14064	CENTENNIAL PK,FRONT ST/CN TRACKS	58	5	20	30	40	83	124	130	35	24	0
14152	SARNIA											
14152	CHRISTINA/EXMOUTH ST	115	20	40	60	98	486	1473	2180	167	77	0
14153	SARNIA											
14153	704 HARA ST POINT EDWARD	115	10	20	30	58	197	835	1170	90	38	0
15001	WINDSOR											
15001	WRN FAIR GROUNDS, KING/RECTORY	60	10	20	30	40	60	111	130	35	28	0
15009	WINDSOR											
15009	LONGWOODS CONSERVATION AUTHORITY	65	5	5	10	20	36	60	60	17	13	0
15014	WINDSOR											
15014	POHND HILLS RD/DEVERON CRES	57	10	20	30	40	70	90	90	36	30	0
15015	WINDSOR											
15015	951 COMMISSIONERS RD E	58	10	20	20	30	50	64	70	27	23	0
15016	WINDSOR											
15016	801 COMMISSIONERS RD E	59	10	20	20	30	40	64	70	23	19	0
15017	WINDSOR											
15017	8 HOUNTSFIELD DR	56	10	20	30	30	60	88	100	30	24	0
15116	WINDSOR											
15116	801 COMMISSIONERS RD E	40	14	21	28	36	50	78	80	32	27	0

TABLE A-31 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988	POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE										RUN DATE JUL 25, 1989	
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
			10	30	50	70	90	99	MAX			
22907	RAINHAM RD (NEAR STELCO GATE)	57	46	70	140	182	398	1184	1450	199	126	0
26029	NANTICOKE	60	20	40	50	60	91	179	230	55	46	0
27008	EDNA/FREDERICK STS KITCHENER	59	5	20	40	50	70	108	120	39	30	0
29011	71 KING ST ST CATHARINES	52	180	303	430	540	765	1234	1260	452	377	0
29012	BURLINGTON/LEEDS	56	50	75	100	150	235	528	550	134	101	0
29017	BURLINGTON/WELLINGTON	54	53	90	135	171	297	408	430	151	123	0
29025	HAMILTON	43	70	100	150	310	648	2224	3830	337	188	0
29067	CHATHAM/FRID	54	20	40	65	100	207	403	430	95	63	0
29098	BARTON/WENTWORTH	51	20	40	50	90	270	508	550	108	64	0
29102	HAMILTON	63	122	230	330	394	620	807	890	336	269	0
29114	450 HUGHSON ST N	46	10	30	45	60	112	245	250	56	40	0
31104	BAY/HAIN ST	340	20	30	40	50	80	106	150	46	40	0
31120	467 BEACH BLVD	111	20	30	40	50	70	107	110	39	34	0
44005	VICKERS RD/EAST 18TH ST	124	11	16	28	40	71	119	130	34	25	0
45080	26 BREADALBANE	93	20	36	50	60	90	121	130	55	47	0
45081	PERTH/RUSKIN(JUNCTION TRIANGLE)	83	20	20	40	50	68	100	100	40	34	0
63005	TORONTO	55	5	10	30	40	66	94	100	31	21	0
63022	2487 LAKESHORE E/RIRKBAK RDS	56	5	20	30	40	50	84	90	31	25	0
71042	OKAVILLE	267	100	208	330	642	1270	1923	2650	526	348	0
71049	FINLEY RD, ANIMAL HOSPITAL	59	20	40	50	86	190	240	240	76	58	0
71068	AJAX	114	20	39	70	130	291	540	830	118	68	0
71071	65 HARMOOD AVE, AJAX WORKS DEPT	29	9	10	20	30	60	80	80	27	20	0
71072	HOSP. ARCHIBALD/ARTHUR STS	109	20	30	50	86	142	370	400	74	52	0
72077	THUNDER BAY	40	10	16	20	30	51	96	100	26	20	0
75010	HOSPITAL, 35 ALGOMA ST N	36	5	10	20	20	20	60	60	18	15	0
77016	THUNDER BAY	56	5	7	10	20	30	40	40	15	12	0
	PUMPHOUSE, DOWNEY ST											
	SAULT STE MARIE											
	LAND OFFICE, QUEEN ST											
	SAULT STE MARIE											
	WM. HERRIFIELD SCHOOL											
	SAULT STE MARIE											
	POUNDRY RD/BENNET											
	SAULT STE MARIE											
	FIRST AV/SECOND LINE											
	SAULT STE MARIE											
	MINISTRY OF HEALTH BLDG											
	TIMMINS											
	OPP STN											
	NORTH BAY											
	WATER TANK, ASH ST											
	SUBBURY											

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUM DATE
JUL 25, 1989

YEAR - 1988

POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE

RUM DATE
JUL 25, 1989

TABLE A-31 (Cont.)

YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE
	POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE													
	STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES							ARITH MEAN		TIMES ABOVE CRITERIA 24-HR	
10				30	50	70	90	99	MAX					
77026	19 LISGAR ST SUDBURY		54	5	10	20	30	40	54	60	21	17	0	

STATION NUMBER	POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE	LOCATION	UNIT - .001 MICROGRAMS/CU.METRE					ARITH MEAN		TIMES ABOVE CRITERIA 24-HR
			NO OF SAMPLES	10	30	PERCENTILES 50 70 90	MAX	99	MEAN	
12002	CITY HALL, 444 WINDSOR AV WINDSOR		53	5	5	5 5 10 20 144	240	15	8	0
12005	7730 RIVERSIDE DR E WINDSOR		52	5	5	5 5 5 10 10	5	5	5	0
12008	467 UNIVERSITY AV W WINDSOR		340	5	5	5 10 20 56 160	9	7	0	0
12010	SEWAGE STN, HANNING RD WINDSOR		49	5	5	5 5 5 14 20	6	5	0	0
12011	DROUILLARD RD/RICHMOND ST WINDSOR		29	5	5	5 5 11 20 20	7	7	0	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR		54	5	5	7 10 20 34 40	10	8	0	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR		50	5	5	5 6 10 14 20	7	6	0	0
12038	2885 HOWARD AV WINDSOR		57	5	5	10 10 20 39 90	11	9	0	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR		59	5	5	5 8 10 38 90	8	6	0	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR		56	5	5	5 10 10 43 110	9	7	0	0
12049	643 ALEXANDRINE WINDSOR		61	5	5	5 5 10 13 20	6	6	0	0
12051	604 CAPITOL/REHINGTON WINDSOR		56	5	5	5 5 10 14 20	6	6	0	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM		58	5	5	5 5 5 13 20	6	5	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT		350	5	5	5 5 5 11 70 110	9	7	0	0
14030	RR1 (W OF HOUSE) CORUNNA		56	5	5	5 5 10 10 10	6	5	0	0
14031	RR1 (W OF BARN) MOORETOWN		55	5	5	5 5 5 10 10	5	5	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA		58	5	5	5 5 20 84 130	12	8	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON		60	5	5	5 5 10 10 10	6	5	0	0
15009	LONGWOODS CONSERVATION AUTHORITY		65	5	5	5 5 5 10 10	5	5	0	0
15014	POND MILLS RD/DEVERON CRES LONDON		57	5	5	5 5 10 20 20	6	6	0	0
15015	951 COMMISSIONERS RD E LONDON		58	5	5	5 10 12 34 40	8	7	0	0
15016	801 COMMISSIONERS RD E LONDON		59	5	5	5 5 10 29 50	7	6	0	0
15017	8 MOUNTSFIELD DR LONDON		56	5	5	5 5 10 14 20	6	6	0	0
15116	801 COMMISSIONERS RD E LONDON		58	1	2	7 11 23 50 66	10	5	0	0
22907	RAINHAW RD (NEAR STELCO GATE) NANTICOKE		57	5	5	5 10 10 20 20	7	6	0	0
26029	EDNA/FREDERICK STS KITCHENER		60	5	5	5 5 10 13 20	6	6	0	0

TABLE A-32 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 25, 1989

YEAR - 1988

POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
27008	71 KING ST	59	5	5	5	5	10	32	60	7	6	0
27047	ST CATHARINES											
27047	DAVIS/FRAZER	53	20	30	60	98	1132	2091	2230	290	78	1
29011	PORT COLBORNE											
29011	BURLINGTON/LEEDS	52	5	5	5	10	10	24	30	8	7	0
29012	HAMILTON											
29012	BURLINGTON/WELLINGTON	56	5	5	5	5	10	14	20	6	6	0
29017	HAMILTON											
29017	CHATHAM/FRID	54	5	5	5	10	16	24	30	8	7	0
29025	HAMILTON											
29025	BARTON/WENTWORTH	43	5	5	5	10	17	25	30	8	7	0
29067	HAMILTON											
29067	450 HUGHSON ST N	54	5	5	5	5	10	17	30	6	6	0
29098	HAMILTON											
29098	BAY/MAIN ST	51	5	5	5	5	10	20	20	7	6	0
29102	HAMILTON											
29102	467 BEACH BLVD	63	5	5	10	10	10	20	20	8	7	0
30114	VICKERS RD/EAST 18TH ST	46	5	5	5	5	10	24	50	7	6	0
31104	HAMILTON											
31104	26 BREADALBANE	340	5	5	5	5	5	10	60	6	5	0
31120	TORONTO											
31120	PERTH/RUCKIN(JUNCTION TRIANGLE)	111	5	5	5	5	10	10	10	6	5	0
44005	TORONTO											
44005	2487 LAKESHORE E/BIRKBEAK RDS	192	1	3	7	13	22	37	52	10	5	0
45080	OAKVILLE											
45080	FITZLEY RD, ANIMAL HOSPITAL	93	5	5	5	5	10	30	30	8	6	0
45081	AJAX											
45081	65 HARMWOOD AVE, AJAX WORKS DEPT	83	5	5	5	5	9	12	30	6	5	0
63005	AJAX											
63005	HOSP., ARCHIBALD/ARTHUR STS	55	5	5	5	5	5	5	5	5	5	0
63022	THUNDER BAY											
63022	HOSPITAL, 35 ALGOMA ST N	56	5	5	5	5	5	10	10	5	5	0
71042	THUNDER BAY											
71042	PLUMHOUSE, BOHNEY ST	267	5	5	5	5	10	30	100	7	6	0
71049	SAULT STE MARIE											
71049	LAND OFFICE, QUEEN ST	59	5	5	5	5	10	23	70	7	6	0
71068	SAULT STE MARIE											
71068	WM. MERRIFIELD SCHOOL	114	5	5	5	5	10	67	130	8	6	0
71071	SAULT STE MARIE											
71071	BOUNGAY RD/BENNET	29	5	5	5	5	6	10	10	6	5	0
71072	SAULT STE MARIE											
71072	FIRST AV/SECOND LINE	109	5	5	5	5	10	55	100	7	6	0
72077	SAULT STE MARIE											
72077	MINISTRY OF HEALTH BLDG	40	5	5	5	5	10	10	10	6	6	0
75010	THOMAS											
75010	OPB STN	36	5	5	5	5	14	88	120	11	7	0
77016	NORTH BAY											
77016	WATER TANK, ASH ST	56	20	30	100	175	649	1522	1730	225	89	0
77026	SUBURRY											
77026	19 LISCAR ST	54	10	30	80	161	377	743	910	141	70	0
77026	SUBURRY											

TABLE A-32 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1988		POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE				UNIT - .001 MICROGRAMS/CU.METRE				RUN DATE JUL 25, 1989		
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES			ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR				
			10	30	50				70	90	99	MAX
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	59	60	90	160	312	763	4761	6140	431	193	2

TABLE A-33 CHROMIUM (Cr) STATISTICS (1988)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											JUL 25, 1989	
YEAR - 1988	POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE			UNIT - .001 MICROGRAMS/CU.METRE								
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES						ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99				
12002	CITY HALL, 444 WINDSOR AV	53	5	5	5	5	10	24	60	7	6	0
12005	7730 RIVERSIDE DR E	52	5	5	5	5	5	10	10	5	5	0
12008	467 UNIVERSITY AV W	340	5	5	5	10	10	36	70	8	7	0
12010	SEMADE STN, HANNING RD	49	5	5	5	5	11	30	30	8	6	0
12011	DROUILLARD RD/RICHMOND ST	29	5	5	5	10	20	27	30	10	8	0
12013	FILTRAT PLT.3665 WYANDOTTE ST E	54	5	5	5	10	40	65	70	15	10	0
12015	SEMADE STN, HWY 18/PROSPECT	50	5	5	5	10	10	25	30	8	7	0
12038	2885 HOWARD AV	57	5	5	10	20	30	51	70	16	12	0
12039	DOUGLAS ST/E.C. ROW W	59	5	5	5	5	10	16	30	6	6	0
12047	DORMIN PLAZA, DOUGALL AV	56	5	5	5	5	10	19	40	6	6	0
12049	643 ALEXANDRINE	60	5	5	5	5	5	10	10	5	5	0
12051	604 CAPITOL/REHINGTON	56	5	5	5	5	10	24	30	7	6	0
13003	POST OFFICE, 10 CENTRE ST	58	5	5	5	5	10	10	10	6	5	0
14016	CHATHAM	350	5	5	5	5	10	10	26	6	6	0
14030	HWY40 (OPP LANBTON GS)	56	5	5	5	5	10	58	90	9	7	0
14031	RR1 (W OF HOUSE)	55	5	5	5	5	10	20	20	6	6	0
14031	RR1 (W OF BARN)	58	5	5	5	5	6	44	50	8	6	0
14064	MOORETOWN	60	5	5	5	5	10	30	30	8	7	0
15001	CENTENNIAL PK-FRONT ST/CN TRACKS	65	5	5	5	5	8	30	30	7	6	0
15009	WRN FAIR GROUNDS, KING/RECTORY	53	5	5	5	5	5	10	10	5	5	0
15009	LONDON	53	5	5	5	5	10	10	10	6	6	0
15014	POND MILLS RD/DEVERON CRES	54	5	5	5	5	10	10	10	6	6	0
15015	951 COMMISSIONERS RD E	51	5	5	5	5	10	10	10	6	6	0
15016	801 COMMISSIONERS RD E	57	1	2	6	8	14	20	20	7	4	0
15017	8 HOUNTSFIELD DR	57	5	5	5	5	10	30	30	7	6	0
15116	LONDON	60	5	5	5	5	6	10	13	20	7	0
22907	RAINHAM RD (NEAR STELCO GATE)											
26029	NANTICOKE											
	EDNA/FREDERICK STS											
	KITCHENER											

TABLE A-33 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													
YEAR - 1988		POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE					UNIT - .001 MICROGRAMS/CU.METRE						
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR			
			10	30	50	70	90						
27008	71 KING ST	59	5	5	5	5	5	13	20	5	0		
29011	ST CATHARINES												
	BURLINGTON/LEEDS												
29012	HAMILTON	52	5	10	20	37	60	101	130	29	19		
	BURLINGTON/WELLINGTON												
29017	HAMILTON	56	5	5	5	5	10	20	20	7	0		
	CHATHAM/FRID												
29025	HAMILTON	54	5	5	5	5	10	20	30	9	0		
	BARTON/WENTWORTH												
29067	HAMILTON	43	5	5	10	20	38	91	110	19	13		
	450 HUGHSON ST N												
29098	HAMILTON	54	5	5	5	5	10	20	20	7	0		
	BAY/MAIN ST												
29102	HAMILTON	51	5	5	5	5	10	20	20	7	0		
	467 BEACH BLVD												
29114	HAMILTON	63	5	10	10	20	20	39	60	14	12		
	VICKERS RD/EAST 18TH ST												
31104	HAMILTON	44	5	5	5	5	10	35	40	8	0		
	26 BREADALBANE												
31120	TORONTO	340	5	5	5	5	10	20	60	80	10	7	
	PERTH/RUSKIN(JUNCTION TRIANGLE)												
44005	TORONTO	111	5	5	5	5	10	20	30	7	7		
	2487 LAKESHORE E/BIRKBECK RDS												
45080	OAKVILLE	192	1	4	7	11	21	40	47	9	5	0	
	FINLEY RD, ANIMAL HOSPITAL												
45081	AJAX	92	5	5	5	5	10	40	40	8	7	0	
	65 HARWOOD AVE, AJAX WORKS DEPT												
53005	AJAX	83	5	5	5	5	10	28	42	50	11	8	0
	HOSP, ARCHIBALD/ARTHUR STS												
63022	THUNDER BAY	55	5	5	5	5	5	5	5	5	5	0	
	HOSPITAL, 35 ALGOMA ST N												
71042	THUNDER BAY	56	5	5	5	5	7	10	10	6	5	0	
	PUMPHOUSE, BONNEY ST												
71049	SAULT STE MARIE	105	5	5	10	10	20	30	30	11	9	0	
	LAND OFFICE, QUEEN ST												
71068	SAULT STE MARIE	21	5	5	5	5	5	10	10	5	5	0	
	WM. MERRIFIELD SCHOOL												
71072	SAULT STE MARIE	39	5	5	5	5	10	59	90	9	6	0	
	FIRST AV/SECOND LINE												
72077	SAULT STE MARIE	36	5	5	5	5	10	200	690	26	7	0	
	MINISTRY OF HEALTH BLDG												
75010	THIMMINS	17	5	5	5	5	10	18	20	7	6	0	
	OPP STN												
77016	NORTH BAY	36	5	5	5	5	5	16	20	6	5	0	
	WATER TANK, ASH ST												
77026	SUDBURY	53	5	5	5	5	10	24	30	7	6	0	
	19 LISGAR ST												
77070	SUDBURY	51	5	5	5	5	20	30	30	8	6	0	
	PUMPHOUSE, NICKEL ST												
	COPPER CLIFF	56	5	5	5	5	10	30	30	8	6	0	

TABLE A-34 CADMIUM (Cd) STATISTICS (1988)

STATION NUMBER	LOCATION	POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE	YEAR - 1988	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH					UNIT - .001 MICROGRAMS/CU.METRE	RUN DATE JUL 25, 1989				
				AIR RESOURCES BRANCH										
				NO OF SAMPLES	10	30	PERCENTILES 50 70 90			MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
12002	CITY HALL, 444 WINDSOR AV			53	1	1	1	2	6	13	17	2	1	0
12005	WINDSOR													
	7730 RIVERSIDE DR E			52	1	1	1	2	3	6	7	1	1	0
12008	WINDSOR													
	467 UNIVERSITY AV W			340	1	1	2	3	6	14	15	3	2	0
12010	WINDSOR													
	SENAGE STN, HANMING RD			49	1	1	1	2	3	5	7	1	1	0
12011	WINDSOR													
	DROUILARD RD/RICHMOND ST			29	1	1	2	3	4	8	9	2	1	0
12013	WINDSOR													
	FILTRAT PLOT 3665 WYANDOTTE ST E			54	1	1	2	3	5	10	11	2	1	0
12015	WINDSOR													
	SENAGE STN, HWY 10/PROSPECT			50	1	1	1	2	6	12	14	2	1	0
12038	WINDSOR													
	2805 HOWARD AV			57	1	1	2	2	5	7	8	2	1	0
12039	WINDSOR													
	DOUGLAS ST/E.C. ROW W			59	1	1	1	2	4	6	6	2	1	0
12047	WINDSOR													
	DORWIN PLAZA, DOUGALL AV			56	1	1	1	1	4	10	12	1	1	0
12049	WINDSOR													
	643 ALEXANDRINE			60	1	1	1	2	3	6	6	1	1	0
12051	WINDSOR													
	604 CAPITOL/REHINGTON			56	1	1	1	2	3	6	7	1	1	0
13003	WINDSOR													
	POST OFFICE, 10 CENTRE ST			58	1	1	1	1	1	1	2	0	0	0
14016	CHATHAM													
	HWY40 (OPP LAMBTON GS)			350	1	1	1	1	1	2	2	0	0	0
14030	COURTTRIGHT													
	RRI (W OF HOUSE)			56	1	1	1	1	1	7	28	1	0	0
14031	CORURIA													
	RRI (W OF BARN)			55	1	1	1	1	2	3	3	0	0	0
14064	MOORETON													
	CENTENNIAL PK./FRONT ST/CN TRACKS			58	1	1	1	1	2	4	5	1	0	0
15001	SARLIA													
	WRN FAIR GROUNDS, KING/RECTORY			60	1	1	1	1	3	4	5	1	0	0
15009	LONDON													
	LONGWOODS CONSERVATION AUTHORITY			65	1	1	1	1	2	3	3	0	0	0
15014	POND MILLS RD/DEVERON CRES													
	LONDON			53	1	1	1	1	2	2	2	0	0	0
15015	951 COMMISSIONERS RD E													
	LONDON			53	1	1	1	1	1	2	2	0	0	0
15016	801 COMMISSIONERS RD E													
	LONDON			54	1	1	1	1	1	1	2	0	0	0
15017	8 HOUTSFIELD DR													
	LONDON			51	1	1	1	1	1	1	2	0	0	0
15116	801 COMMISSIONERS RD E													
	LONDON			57	1	25	25	25	50	104	110	26	12	0
22907	RAINHAM RD (NEAR STELCO GATE)													
26029	NANTICOKE			57	1	1	1	2	3	5	6	1	1	0
	EDNA/FREDERICK STS													
	KITCHENER			60	1	1	1	1	1	2	2	0	0	0

TABLE A-34 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													JUL 25, 1989	
YEAR - 1988		POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE				UNIT - .001 MICROGRAMS/CU.METRE				TIMES ABOVE CRITERIA				
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES				ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA					
			10	30	50	70				90	99	MAX		
27008	71 KING ST	59	1	1	1	1	1	1	3	4	0	0	0	
29011	ST CATHARINES													
29011	BURLINGTON/LEEDS	52	1	2	3	4	8	15	17	4	2	0	0	
29012	BURLINGTON/WELLINGTON	56	1	1	1	1	3	13	23	2	1	0	0	
29017	HAMILTON													
29017	CHATHAM/FRID	54	1	1	1	1	2	3	4	1	0	0	0	
29025	HAMILTON													
29025	BARTON/WENTWORTH	43	1	1	1	1	3	4	4	1	1	0	0	
29067	HAMILTON													
29067	450 HUGHSON ST N	54	1	1	1	1	3	4	5	1	1	0	0	
29098	HAMILTON													
29098	BAY/HAIN ST	51	1	1	1	1	2	5	8	1	0	0	0	
29102	HAMILTON													
29102	467 BEACH BLVD	63	1	1	1	1	3	5	6	1	1	0	0	
29114	HAMILTON													
29114	VICKERS RD/EAST 10TH ST	44	1	1	1	1	1	3	4	0	0	0	0	
31104	HAMILTON													
31104	26 BREADALBANE	340	1	1	1	2	3	8	12	1	1	0	0	
31120	TORONTO													
31120	PERTH/RUSKIN(JUNCTION TRIANGLE)	111	1	1	1	2	3	14	22	2	1	0	0	
44005	TORONTO													
44005	2487 LAKESHORE E/BIRKBECK RDS	192	1	25	25	25	80	141	160	31	12	0	0	
45080	OAKVILLE													
45080	FINLEY RD, ANIMAL HOSPITAL	92	1	1	1	2	2	4	4	1	1	0	0	
45081	AJAX													
45081	65 HARKWOOD AVE, AJAX WORKS DEPT	83	1	1	1	1	2	4	5	1	0	0	0	
63005	AJAX													
63005	HOSP, ARCHIBALD/ARTHUR STS	55	1	1	1	1	1	1	1	0	0	0	0	
63022	THUNDER BAY	56	1	1	1	1	1	1	1	0	0	0	0	
71042	HOSPITAL, 35 ALGOMA ST N	105	1	1	1	1	1	1	1	0	0	0	0	
71049	THUNDER BAY	21	1	1	1	1	1	1	1	0	0	0	0	
71049	SAULT STE MARIE	39	1	1	1	1	1	2	2	0	0	0	0	
71068	LAND OFFICE, QUEEN ST	36	1	1	1	1	1	1	1	0	0	0	0	
71068	SAULT STE MARIE	17	1	1	1	1	1	1	1	0	0	0	0	
71072	SAULT STE MARIE	36	1	1	1	1	1	1	1	0	0	0	0	
71072	FIRST AV/SECOND LINE	17	1	1	1	1	1	1	1	0	0	0	0	
72077	SAULT STE MARIE	36	1	1	1	1	1	1	1	0	0	0	0	
72077	MINISTRY OF HEALTH BLDG	17	1	1	1	1	1	1	1	0	0	0	0	
75010	TIMMINS	36	1	1	1	1	1	1	2	0	0	0	0	
75010	OPP STN	53	1	1	1	1	1	1	1	0	0	0	0	
77016	NORTH BAY	51	1	1	1	1	1	1	1	0	0	0	0	
77016	WATER TANK, ASH ST	56	1	1	1	1	1	1	1	0	0	0	0	
77026	SUDBURY													
77026	19 LISGAR ST	51	1	1	1	1	2	4	11	16	2	1	0	
77070	SUDBURY													
77070	PUMPHOUSE, NICKEL ST	56	1	1	1	1	2	3	7	8	1	1	0	
77070	COPPER CLIFF													
77070		56	1	1	1	1	1	4	17	18	2	0	0	

TABLE A-35 VANADIUM (V) STATISTICS (1988)

YEAR - 1988	STATION NUMBER	LOCATION	POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE				UNIT - .001 MICROGRAMS/CU. METRE				AIR RESOURCES BRANCH		RUN DATE	
			NO OF SAMPLES		PERCENTILES				ARITH MEAN		GEOM MEAN		TIMES ABOVE CRITERIA	
			10	30	50	70	90	99	MAX				24-HR	
	12002	CITY HALL, 444 WINDSOR AV	53	5	5	5	10	20	30	10	8		0	
	12005	WINDSOR												
		7730 RIVERSIDE DR E	52	5	5	5	10	20	30	9	8		0	
	12008	WINDSOR												
		467 UNIVERSITY AV W	340	5	5	5	10	20	46	70	10	8	0	
	12010	WINDSOR												
		SEWAGE STN, HANNING RD	49	5	5	5	5	20	25	30	8	7	0	
	12011	WINDSOR												
		DROUILLARD RD/RICHMOND ST	29	5	5	5	10	20	27	30	10	8	0	
	12013	WINDSOR												
		FILTRAT PLT, 3665 WYANDOTTE ST E	54	5	5	5	10	20	34	40	10	8	0	
	12015	WINDSOR												
		SEWAGE STN, HWY 18/PROSPECT	50	5	5	5	10	20	30	30	9	7	0	
	12038	WINDSOR												
		2805 HOWARD AV	57	5	5	5	6	10	24	30	7	7	0	
	12039	WINDSOR												
		DOUGLAS ST/E.C. ROW W	59	5	5	5	5	20	20	20	8	7	0	
	12047	WINDSOR												
		DORWIN PLAZA, DOUGALL AV	56	5	5	5	10	20	30	30	9	7	0	
	12049	WINDSOR												
		643 ALEXANDRINE	60	5	5	5	10	10	20	20	7	7	0	
	12051	WINDSOR												
		604 CAPITOL/REHINGTON	56	5	5	5	10	20	24	30	9	8	0	
	13003	WINDSOR												
		POST OFFICE, 10 CENTRE ST	58	5	5	5	5	10	30	30	7	6	0	
	14016	CHATHAM												
		HWY40 (OPP LAMTON GS)	350	5	5	5	10	41	224	330	20	10	0	
	14030	COURTRIGHT												
		RRI (W OF HOUSE)	56	5	5	10	20	30	54	60	13	10	0	
	14031	CORUNNA												
		RRI (W OF BARN)	55	5	5	5	10	20	38	50	11	8	0	
	14064	MOORETOWN												
		CENTENNIAL PK, FRONT ST/CN TRACKS	58	5	5	10	20	53	255	330	29	13	0	
	15001	SARNIA												
		WRN FAIR GROUNDS, KING/RECTORY	60	5	5	5	10	21	40	40	10	8	0	
	15009	LONDON												
		LONGWOODS CONSERVATION AUTHORITY	65	5	5	5	10	20	26	40	8	7	0	
	15014	POND MILLS RD/DEVERON CRES												
		LONDON	53	5	5	5	10	20	30	30	10	8	0	
	15015	951 COMMISSIONERS RD E												
		LONDON	53	5	5	10	10	20	34	40	10	8	0	
	15016	801 COMMISSIONERS RD E												
		LONDON	54	5	5	10	10	20	40	40	11	9	0	
	15017	8 MOUNTSFIELD DR												
		LONDON	51	5	5	10	10	20	40	40	11	9	0	
	15116	801 COMMISSIONERS RD E												
		LONDON	57	1	2	2	6	10	21	22	5	3	0	
	22907	RAINHAM RD (NEAR STELCO GATE)												
		HANTICOKE	57	5	5	10	20	20	34	40	12	9	0	
	26029	EDNA/FREDERICK STS												
		KITCHENER	60	5	5	5	10	20	24	30	9	7	0	

TABLE A-35 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - ATR RESOURCES BRANCH													JUL 25, 1989	
YEAR - 1988		POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE										UNIT - .001 MICROGRAMS/CU.METRE		
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR				
			10	30	50	70	90							
27008	71 KING ST	59	5	5	5	5	11	24	30	7	6	0		
29011	ST CATHARINES BURLINGTON/LEEDS	52	5	5	5	5	10	20	40	40	10	8	0	
29012	BURLINGTON/WELLINGTON	56	5	5	5	5	7	14	30	30	8	7	0	
29017	CHATHAM/FRID	54	5	5	5	5	5	20	24	30	8	7	0	
29025	BARTON/WENTWORTH	43	5	5	5	10	24	38	40	40	16	12	0	
29067	450 HUGHSON ST N	54	5	5	5	5	10	16	34	40	8	7	0	
29098	BAY/HAIN ST	51	5	5	5	5	10	20	24	30	9	8	0	
29102	467 BEACH BLVD	63	5	5	10	10	20	30	44	50	15	12	0	
29114	VICKERS RD/EAST 18TH ST	44	5	5	5	5	10	20	30	30	9	7	0	
31104	26 BREADALBANE	340	5	5	5	5	5	10	20	30	7	6	0	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE)	111	5	5	5	5	10	10	29	30	8	7	0	
44005	2487 LAKESHORE E/DIRKDAWK RDS	192	1	2	2	7	12	29	34	5	3	0		
45080	FINLEY RD, ANIMAL HOSPITAL	92	5	5	5	5	10	10	20	20	8	7	0	
45081	65 HARWOOD AVE, AJAX WORKS DEPT	83	5	5	5	5	5	10	20	20	7	6	0	
63005	HOSP, ARCHIBALD/ARTHUR STS	55	5	5	5	5	20	40	40	12	9	0		
63022	THUNDER BAY HOSPITAL, 35 ALGOMA ST N	56	5	5	5	5	10	30	44	50	12	9	0	
71042	PUMPHOUSE, BONNEY ST	105	5	10	20	20	30	60	60	17	13	0		
71049	LAND OFFICE, QUEEN ST	21	5	10	10	10	20	28	30	12	10	0		
71068	SAULT STE MARIE WIL. MERRIFIELD SCHOOL	39	5	5	5	5	5	20	20	7	6	0		
71072	SAULT STE MARIE FIRST AV/SECOND LINE	36	5	5	5	5	5	10	16	20	7	6	0	
72077	MINISTRY OF HEALTH BLDG TIMMINS	17	5	9	20	20	24	30	30	15	12	0		
75010	OPP STN NORTH BAY	36	5	5	5	5	5	7	10	10	6	5	0	
77016	WATER TANK, ASH ST SUDBURY	53	5	5	5	5	5	10	34	40	8	6	0	
77026	19 LISGAR ST SUDBURY	51	5	5	5	5	10	20	30	30	9	7	0	
77070	SUDBURY PUMPHOUSE, NICKEL ST COPPER CLIFF	56	5	5	5	5	5	10	24	30	7	6	0	

TABLE A-36 MAXIMUM MONITORED LEVELS FOR TRACE METALS (1988)

YEAR - 1988	POLLUTANTS -	LOCATION	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
			CHROMIUM IN TSP IRON IN TSP CADMIUM IN TSP COPPER IN TSP	UNIT - UNIT - UNIT - UNIT -	NO OF SAMPLES	CR MAX	VV MAX	CU MAX	FE MAX	NI MAX	CD MAX	HN MAX	JUL 25, 1989	
12002	CITY HALL, 444 WINDSOR AV WINDSOR				53	60	30	40	69	240	17	250		
12005	7730 RIVERSIDE DR E WINDSOR				52	10	30	24	36	10	7	120		
12007	WRIGHT/WATER ST WINDSOR				57	N/A	N/A	N/A	85	N/A	N/A	N/A		
12008	467 UNIVERSITY AV W WINDSOR				340	70	70	44	133	160	15	350		
12010	SEWAGE STN, HANNING RD WINDSOR				49	30	30	19	26	20	7	170		
12013	FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR				54	70	40	151	216	40	11	1350		
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR				50	30	30	32	75	20	14	220		
12016	COLLEGE/SOUTH ST WINDSOR				56	N/A	N/A	N/A	69	N/A	N/A	N/A		
12038	2885 HOWARD AV WINDSOR				57	70	30	59	312	90	8	290		
12039	DOUGLAS ST/E C ROW W WINDSOR				59	30	20	46	61	90	6	140		
12047	DORMIN PLAZA, DOUGALL AV WINDSOR				56	40	30	135	53	110	12	150		
12049	643 ALEXANDRINE WINDSOR				60	10	20	26	70	20	6	160		
12051	604 CAPITOL/PEMBINGTON WINDSOR				56	30	30	161	65	20	7	160		
13003	POST OFFICE, 10 CENTRE ST CHATHAM				58	10	30	25	17	20	2	80		
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT				350	26	330	110	26	110	2	70		
14030	R91 (W OF HOUSE) CORUNNA				56	90	60	14	25	10	28	60		
14031	R91 (W OF BARN) MOORETOWN				55	20	50	6	43	10	3	50		
14064	CENTENRIAL PK, FRONT ST/CN TRACKS SARNIA				58	50	330	151	39	130	5	130		
14152	CHRISTINA/EXHOUTH ST SARNIA				115	N/A	N/A	N/A	267	N/A	N/A	2180		
15001	MPH FAIR GROUNDS, KING/RECTORY LONDON				60	30	40	29	27	10	5	130		
15009	LOWSWOODS CONSERVATION AUTHORITY LONDON				65	30	40	27	18	10	3	60		
15014	POND HILLS RD/DEVERON CRES LONDON				57	10	30	4	32	20	2	90		
15015	951 COMMISSIONERS RD. E LONDON				58	10	40	16	18	40	2	70		
15016	801 COMMISSIONERS RD. E LONDON				59	10	40	6	20	29	2	70		

TABLE A-36 (Cont.)

STATION NUMBER	LOCATION	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE	
		YEAR - 1988	POLLUTANTS - CHROMIUM IN TSP IRON IN TSP CADMIUM IN TSP COPPER IN TSP	UNIT - .001 UG/M3 UNIT - .1 UG/M3 UNIT - .001 UG/M3 UNIT - .01 UG/M3	NO OF SAMPLES	CR MAX	VV MAX	CU MAX	FE MAX	NI MAX	CD MAX	JUL 25, 1989	
15017	8 MOUNTSFIELD DR. LONDON				56	10	40	13	17	20	2	100	
26029	EDNA/FREDERICK STS KITCHENER				60	20	30	18	52	20	2	230	
27047	DAVIS/FRAZER PORT COLBORNE				53	N/A	N/A	N/A	N/A	2230	N/A	N/A	
29011	BURLINGTON/LEEDS				52	130	40	20	214	30	17	1260	
29012	BURLINGTON/WELLINGTON				56	20	30	44	80	20	23	550	
29017	CHATHAM/FRID				54	30	30	18	74	30	4	430	
29025	BARTON/MENTWORTH				43	110	40	26	176	30	4	3630	
29067	450 HUGHSON ST N HAMILTON				54	20	40	31	72	30	5	430	
29102	467 BEACH BLVD HAMILTON				63	60	50	31	149	20	6	890	
29114	VICKERS RD/EAST 18TH ST HAMILTON				44	40	30	9	56	50	4	250	
31104	26 BREADALBANE TORONTO				340	80	30	73	35	60	12	150	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO				111	30	30	59	34	10	22	110	
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY				55	5	40	63	49	5	1	100	
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY				56	10	50	11	47	10	1	90	
71042	PURHOUSE, BOWNEY ST SAULT STE MARIE				267	30	60	44	647	100	1	2650	
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE				59	10	30	15	37	70	2	240	
71068	W.H. HERRIFIELD SCHOOL SAULT STE MARIE				114	90	20	19	133	130	2	830	
71071	BOUNDARY RD/BENNET SAULT STE MARIE				29	N/A	N/A	30	18	10	N/A	80	
71072	FIRST AVE/SECOND LINE SAULT STE MARIE				109	690	20	52	64	100	1	400	
72077	MINISTRY OF HEALTH BLDG TIMMINS				40	20	30	22	49	10	1	100	
75010	OPP STN NORTH BAY				36	20	10	44	22	120	2	60	
77016	WATER TANK, ASH ST SUDBURY				56	30	40	111	74	1730	16	40	
77026	19 LISGAR ST SUDBURY				54	30	30	53	70	910	8	60	

TABLE A-36 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												RUN DATE JUL 25, 1969							
YEAR - 1968	POLLUTANTS	CHROMIUM IN TSP		UNIT - .001 UG/M3	NICKEL		IN TSP		UNIT - .001 UG/M3	VANADIUM		IN TSP		UNIT - .001 UG/M3	MANGANESE		IN TSP		UNIT - .001 UG/M3
		IRON IN TSP	UNIT - .1 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	UNIT - .001 UG/M3	
STATION NUMBER	LOCATION	NO OF SAMPLES		CR MAX	VV MAX	CU MAX	FE MAX	NI MAX	CD MAX	NI MAX	CD MAX	NI MAX	CD MAX	NI MAX	CD MAX	NI MAX	CD MAX	NI MAX	CD MAX
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	59	30	30	30	162	63	6140	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH
 JUL 25, 1989

 YEAR - 1988
 POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE
 UNIT - .1 MICROGRAMS/CU.METRE

 RUN DATE
 JUL 25, 1989

STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES					MAX	ARITH MEAN		GEOM MEAN
			10	30	50	70	90		99	99	
29098	BAY/MAIN ST	51	7	9	15	29	55	105	112	26	17
29102	HAMILTON										
467	BEACH BLVD	63	11	18	35	49	77	101	103	38	30
29114	WICKERS RD/EAST 18TH ST										
44	HAMILTON	44	14	26	41	60	90	116	123	47	38
31104	26 BREADALBANE										
32010	TORONTO	340	12	21	31	44	80	130	164	40	31
	LEASIDE HYDRO STATION										
33003	EAST YORK	91	6	12	10	27	47	78	79	23	18
	LAWRENCE/KENNEDY										
34025	SCARBORO	114	7	12	19	31	55	88	108	26	19
	35 EDGAR AVE										
35003	NORTH YORK WEST	29	8	20	38	51	78	91	91	30	29
	ELMCREST RD (CENTENNIAL PK)										
35033	ETOBICOKE	88	10	21	35	53	76	110	121	41	31
	EVANS/ARNOLD AV										
44008	ETOBICOKE	112	13	27	42	59	97	119	146	49	38
	HWY2/NORTH SHORE BLVD E										
44015	BURLINGTON	116	9	16	27	38	74	102	111	34	25
	BRONTE RD/MOBBURN CRES										
45025	OAKVILLE	121	7	14	22	35	58	101	112	28	21
	PS, RITSON RD/OLIVE AV										
46033	OSHANA	113	6	13	22	41	62	109	122	31	21
	FIRE HALL, BRAHALEA RD										
46110	BRAMALEA	51	14	30	42	63	94	146	172	51	40
	QUEENSWAY W/HURONTARIO ST										
47042	MISSISSAUGA	119	6	10	17	29	59	99	116	25	18
	ARMOURY BLDG, PARK/PARKSIDE ST										
48002	BARRIE	61	9	18	26	40	78	99	100	34	27
	HWY47/E OF HWY48										
58027	STOUFFVILLE	102	6	12	24	39	63	103	106	31	21
	51 SHUTER ST										
58041	PORT HOPE	91	8	14	24	50	79	127	128	37	25
	FILT PLT, MARSH ST										
58042	PORT HOPE	95	7	15	27	52	82	114	122	37	26
	CAN TIRE, QUEEN ST										
63005	PORT HOPE	93	7	13	21	41	77	113	115	34	24
	HOSP, ARCHIBALD/ARTHUR STS										
63022	THUNDER BAY	55	4	8	12	15	30	65	67	15	11
	HOSPITAL, 35 ALGOMA ST N										
63200	THUNDER BAY	56	4	8	10	17	26	52	77	14	11
	HTC 615 JAMES ST S										
71042	THUNDER BAY	58	4	9	12	18	30	79	86	16	12
	PUNPHOUSE, BONNEY ST										
71049	SAULT STE MARIE	267	3	6	10	20	39	124	175	18	11
	LAND OFFICE, QUEEN ST										
71068	SAULT STE MARIE	59	6	8	13	19	49	98	175	20	14
	WH. MERRIFIELD SCHOOL										
71071	SAULT STE MARIE	114	4	6	9	15	37	70	98	15	10
	BOUNDARY RD/BENNET										
	SAULT STE MARIE	29	6	8	12	17	38	67	73	18	13

TABLE A-37 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH										RUN DATE JUL 25, 1989	
YEAR - 1988		POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE			UNIT - .1 MICROGRAMS/CU.METRE						
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES			99	MAX	ARITH MEAN	GEOM MEAN
71072	FIRST AV/SECOND LINE	109	4	6	10	18	35	77	104	16	11
72077	SAULT STE MARIE MINISTRY OF HEALTH BLDG TIMMINS	42	5	7	9	14	21	36	37	12	10
75010	OPP STN NORTH BAY	36	5	8	10	17	46	57	61	18	13
77016	WATER TANK, ASH ST SUDBURY	56	2	5	7	14	23	44	49	12	8
77026	19 LISGAR ST SUDBURY	54	3	5	7	12	22	69	72	12	8
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	59	5	6	10	18	30	92	112	16	11

RUN DATE
JUL 25, 1989

TABLE A-38 10-YEAR TREND FOR NO₃

City	Annual geometric mean (ug/m ³)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
BRAMALEA	3.8	2.9	3.0	4.3	3.8	3.8	3.6	3.7	3.3	4.0
ETOBICOKE	4.1	4.6	4.9	4.9	3.3	3.7	3.0	3.8	2.8	3.1
HAMILTON	4.0	3.8	3.4	3.7	3.7	3.8	3.5	3.8	3.9	3.7
KITCHENER	4.1	3.7	3.4	3.7	3.1	3.3	2.8	3.3	3.2	1.8
LONDON	4.9	4.5	3.5	3.6	3.3	3.6	3.3	3.6	3.9	2.3
MISSISSAUGA	3.6	3.1	3.5	4.0	4.1	3.8	3.5	3.0	2.9	1.8
NORTH BAY	2.0	1.4	1.2	1.2	1.2	1.1	1.0	.9	.9	1.3
NORTH YORK	4.4	3.3	3.1	3.2	3.1	3.3	3.1	2.7	2.8	2.9
OSHAWA	4.3	3.2	3.3	3.2	3.0	3.5	2.9	3.0	3.2	2.1
PORT HOPE	4.5	2.7	2.5	4.2	2.3	4.3	3.0	1.7	2.8	2.5
S.S.MARIE	1.2	1.4	1.5	1.2	1.3	1.2	1.0	.9	.9	1.4
SCARBORO	3.6	3.4	3.0	3.3	3.2	3.6	3.2	3.1	2.8	1.9
SUDBURY	1.0	1.2	1.6	1.1	1.3	.9	.8	.6	1.0	0.8
THUNDER BAY	.7	1.2	1.5	1.2	.7	.9	.8	.9	1.0	1.1
TORONTO	4.2	3.7	3.7	3.8	3.6	3.5	3.5	3.4	3.3	3.1
WINDSOR	5.7	5.5	5.8	4.4	4.1	3.5	3.9	2.9	4.4	4.1

ONTARIO MINISTRY OF THE ENVIRONMENT ~ AIR RESOURCES BRANCH
 RUN DATE
 JUL 25, 1989

YEAR - 1988 POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES				ARITH MEAN	GEOM MEAN			
			10	30	50	70			90	99	MAX
12002	CITY HALL, 444 WINDSOR AV	53	51	86	109	135	191	269	271	117	104
12005	WINDSOR										
7730	RIVERSIDE DR E	20	65	98	105	119	140	150	161	105	97
12008	WINDSOR										
467	UNIVERSITY AV W	340	48	80	97	117	171	338	435	108	95
12015	WINDSOR										
SEWAGE STN, HWY 18/PROSPECT		50	36	80	104	126	195	280	326	109	92
12038	WINDSOR										
2885	HOWARD AV	57	25	42	59	85	110	218	265	70	58
12039	WINDSOR										
DOUGLAS ST/E.C. ROW W		59	31	63	94	123	164	296	320	100	82
12047	WINDSOR										
DORWIN PLAZA, DOUGALL AV		56	23	45	85	116	147	278	294	91	72
12049	WINDSOR										
643	ALEXANDRINE	60	30	47	86	112	154	275	311	91	73
12051	WINDSOR										
604	CAPITOL/REMINGTON	56	41	72	99	124	167	318	331	105	90
14016	WINDSOR										
HWY40 (OPP LAMTON GS)		350	36	58	71	89	136	259	401	81	70
14064	COURTRIGHT										
CENTENNIAL PK,FRONT ST/CN TRACKS		58	23	37	56	80	133	249	313	69	54
15001	SARNIA										
WRN FAIR GROUNDS, KING/RECTORY		60	20	41	83	101	131	270	274	80	59
15014	LONDON										
POND MILLS RD/DEVERON CRES		57	22	44	59	81	128	281	289	71	57
15015	LONDON										
951	COMMISSIONERS RD E	58	22	41	51	69	104	263	302	64	50
15016	LONDON										
801	COMMISSIONERS RD E	59	20	33	46	67	93	249	261	58	46
15017	LONDON										
8	HOUGHTSFIELD DR	56	18	34	52	77	112	190	256	61	48
22904	WALPOLE S PS, SANDUSK RD										
26029	NANTICOKE	46	22	46	73	96	153	258	263	82	64
EDNA/FREDERICK STS		60	24	37	68	85	120	232	257	71	58
27008	KITCHENER										
71	KING ST	59	66	79	93	104	174	314	315	106	97
27056	ST CATHARINES										
ALLENDALE AV		52	21	34	46	89	166	208	309	73	55
20028	NIAGARA FALLS										
EXHIBITION ST/CLARK ST		53	42	62	78	104	144	247	277	92	81
29011	GUELPH										
BURLINGTON/LEEDS		52	37	49	96	120	167	319	382	103	84
29012	HAMILTON										
BURLINGTON/WELLINGTON		56	26	40	75	102	146	267	275	83	67
29017	HAMILTON										
CHATHAM/FRID		54	26	42	64	96	138	284	299	83	65
29025	BARTON/WENTWORTH										
HAMILTON		43	73	82	92	133	196	351	357	122	109
405	CUMBERLAND AV										
29087	HAMILTON	55	25	40	78	113	167	248	276	89	69

TABLE A-39 (Cont.)

 RUN DATE
JUL 25, 1989

 ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH
POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

YEAR - 1988

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES				ARITH MEAN	GEOM MEAN
			10	30	50	70	90	
29098	BAY/HAIN ST	51	24	36	80	109	169	311
29102	HAMILTON	63	57	87	108	130	192	342
29114	HAMILTON	44	83	98	107	121	151	308
31104	VICKERS RD/EAST 18TH ST	340	41	57	70	83	142	317
32010	26 BREADALBANE	91	24	43	60	82	130	281
33003	LEASIDE HYDRO STATION	114	25	46	61	76	107	201
34025	EAST YORK	29	46	61	74	80	113	182
35003	LAWRENCE/KENNEDY	88	33	70	91	111	178	313
35033	SCARBORO	112	66	80	93	116	154	290
44008	35 EDGAR AVE	116	31	65	83	99	130	301
44015	NORTH YORK WEST	121	28	53	74	93	128	254
45025	ELMCREST RD (CENTENNIAL PK)	113	23	54	80	111	149	308
46033	ETOBICOKE	51	52	72	98	130	202	325
46110	EVANS/ARNOLD AV	119	23	50	69	89	116	242
47042	HWY2/NORTH SHORE BLVD E	61	54	79	86	102	125	193
48002	BURLINGTON	102	26	44	79	100	133	246
58027	BRONTE RD/MOBBURN CRES	91	33	46	71	105	135	257
58041	OAKVILLE	95	29	49	78	120	202	283
58042	PS, RITSON RD/OLIVE AV	93	29	51	76	125	192	302
63005	OSHANA	55	20	25	32	42	53	77
62022	FIRE HALL, BRAHALEA RD	56	23	30	39	48	62	100
63200	QUEENSHAW W/HURONTARIO ST	58	23	34	43	58	75	98
71042	MISSISSAUGA	267	21	40	72	107	181	309
71049	ARHOURY BLDG, PARK/PARKSIDE ST	59	46	65	76	93	129	315
71068	BARRIE	114	16	31	52	70	115	217
71071	HWY47/E OF HWY48	29	36	45	54	62	80	94
	STOUFFVILLE							
	51 SHUTER ST							
	PORT HOPE							
	FILT PLT, MARSH ST							
	PORT HOPE							
	CAN TIRE, QUEEN ST							
	PORT HOPE							
	HOSP, ARCHIBALD/ARTHUR CTS							
	THUNDER BAY							
	HOSPITAL, 35 ALGOHA ST N							
	THUNDER DAY							
	HTC 515 JAMES ST S							
	THUNDER BAY							
	PUPHOUSE, BONNEY ST							
	SAULT STE MARIE							
	LAND OFFICE, QUEEN ST							
	SAULT STE MARIE							
	WM. MERRIFIELD SCHOOL							
	SAULT STE MARIE							
	BOUNDARY RD/BLUMET							
	SAULT STE MARIE							

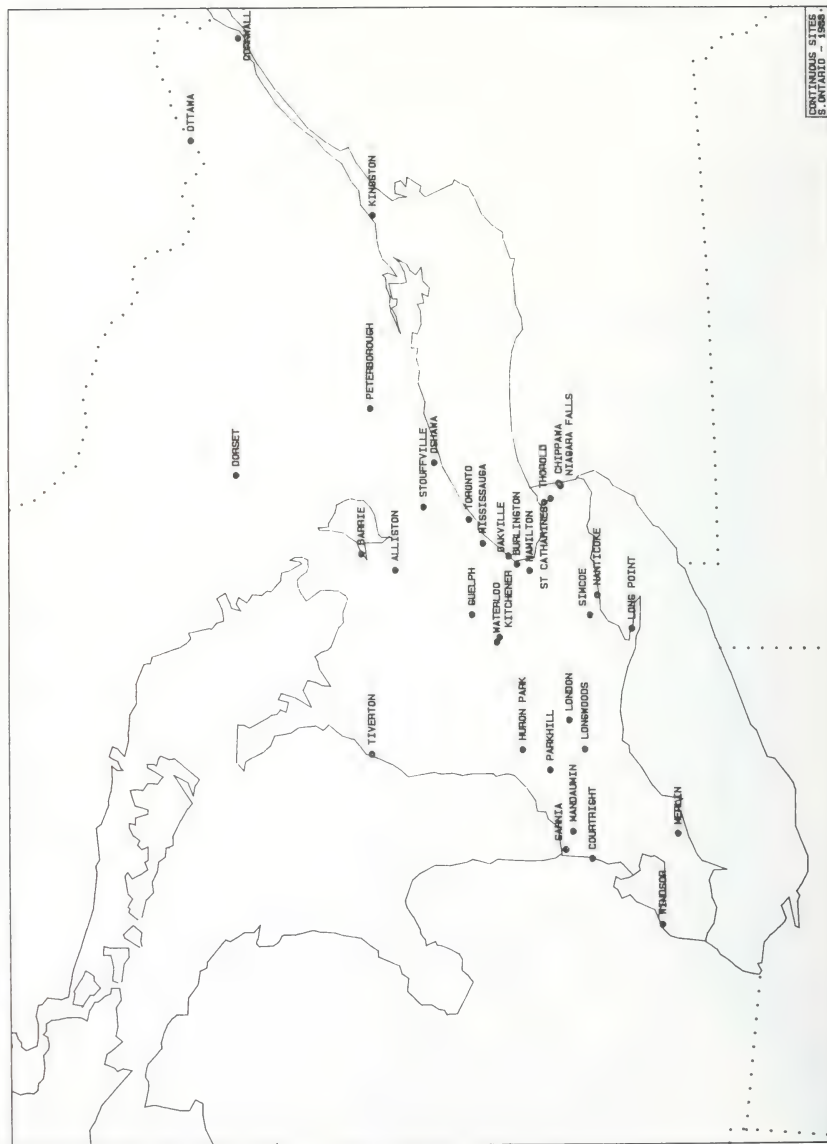
TABLE A-39 (Cont.)

STATION NUMBER	YEAR - 1988	POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE	ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH									JUL 25, 1989
			UNIT - .1 MICROGRAMS/CU.METRE									
			NO OF SAMPLES		PERCENTILES					ARITH MEAN	GEOM MEAN	
		LOCATION	10	30	50	70	90	99	MAX			
71072		FIRST AV/SECOND LINE	109	20	32	51	70	125	208	354	60	47
72077		SAULT STE MARIE	42	18	38	51	61	90	138	139	54	45
75010		MINISTRY OF HEALTH BLDG TINMINS	36	39	55	73	112	203	350	366	104	83
77016		OPP STN NORTH BAY	56	22	39	84	104	135	194	209	79	63
77026		WATER TANK, ASH ST SUDBURY	54	19	32	62	97	115	183	197	68	53
77070		19 LISGAR ST SUDBURY	59	39	77	97	110	149	318	437	103	88
		PUMPHOUSE, NICKEL ST COPPER CLIFF										

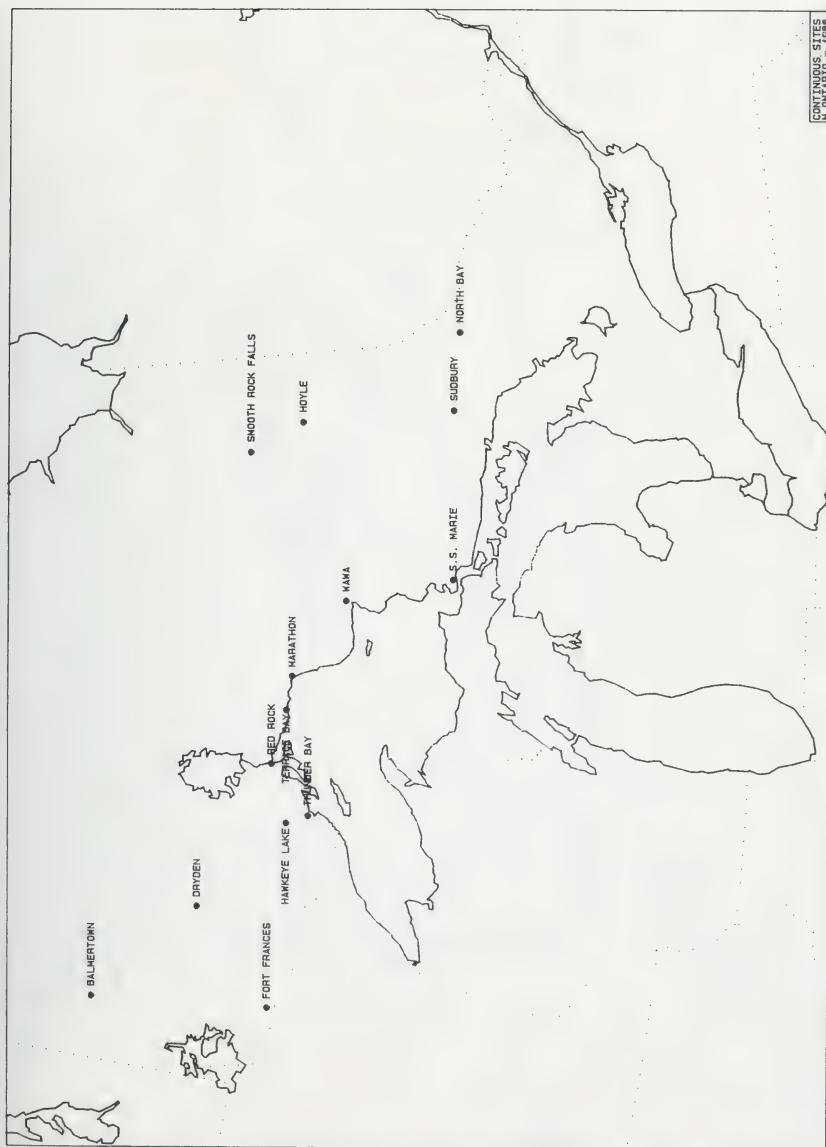
TABLE A-40 10-YEAR TREND FOR SO₂

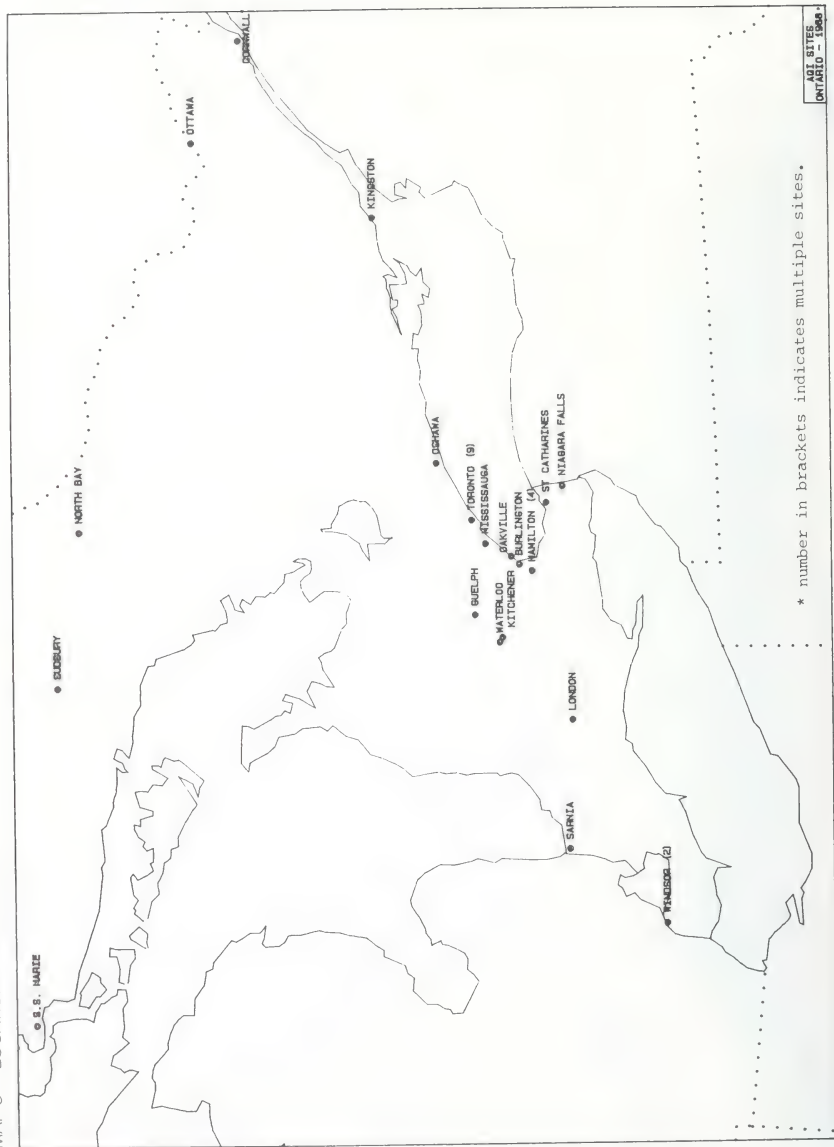
City	Annual geometric mean (ug/m3)									
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
BRAMALEA	9.2	9.0	8.2	8.8	9.0	10.8	7.7	8.8	7.7	9.7
ETOBICOKE	12.9	13.8	12.1	11.3	8.8	9.3	7.7	8.7	8.2	8.4
HAMILTON	13.6	12.5	9.6	9.6	10.1	10.9	8.8	11.5	13.0	10.9
KITCHENER	11.4	11.4	9.9	8.5	7.0	7.7	5.7	7.6	9.8	5.8
LONDON	10.2	10.7	8.1	7.9	7.3	8.7	6.9	7.5	9.4	5.9
MISSISSAUGA	8.9	10.3	10.3	9.5	10.0	10.7	7.1	7.1	9.2	6.1
NORTH BAY	7.5	8.2	6.6	6.3	6.6	7.1	6.0	4.5	7.2	8.3
NORTH YORK	11.2	11.7	9.1	8.8	8.0	7.3	7.7	7.3	8.0	7.3
OSHAWA	10.7	10.1	9.5	8.9	8.7	8.4	7.2	8.1	10.3	6.9
PORT HOPE	10.2	7.5	7.0	5.2	5.6	7.1	6.5	5.5	7.2	7.0
SCARBORO	11.6	11.7	9.1	8.6	8.4	8.2	7.0	7.7	7.8	5.6
S.S. MARIE	-	10.1	7.8	7.7	7.0	6.8	7.2	5.1	6.4	8.0
SUDBURY	8.4	10.6	9.8	7.3	8.5	7.4	5.2	5.8	8.2	6.3
THUNDER BAY	5.4	6.5	7.8	6.4	4.0	4.3	3.5	3.6	2.9	3.2
TORONTO	13.1	12.9	10.1	9.5	8.7	8.0	7.3	8.0	9.5	7.2
WINDSOR	12.7	12.6	12.0	9.9	8.7	8.6	8.5	10.5	11.3	10.4

MAP 1 LOCATIONS OF CONTINUOUS MONITORING - S. ONTARIO



MAP 2 LOCATIONS OF CONTINUOUS MONITORING - N. ONTARIO

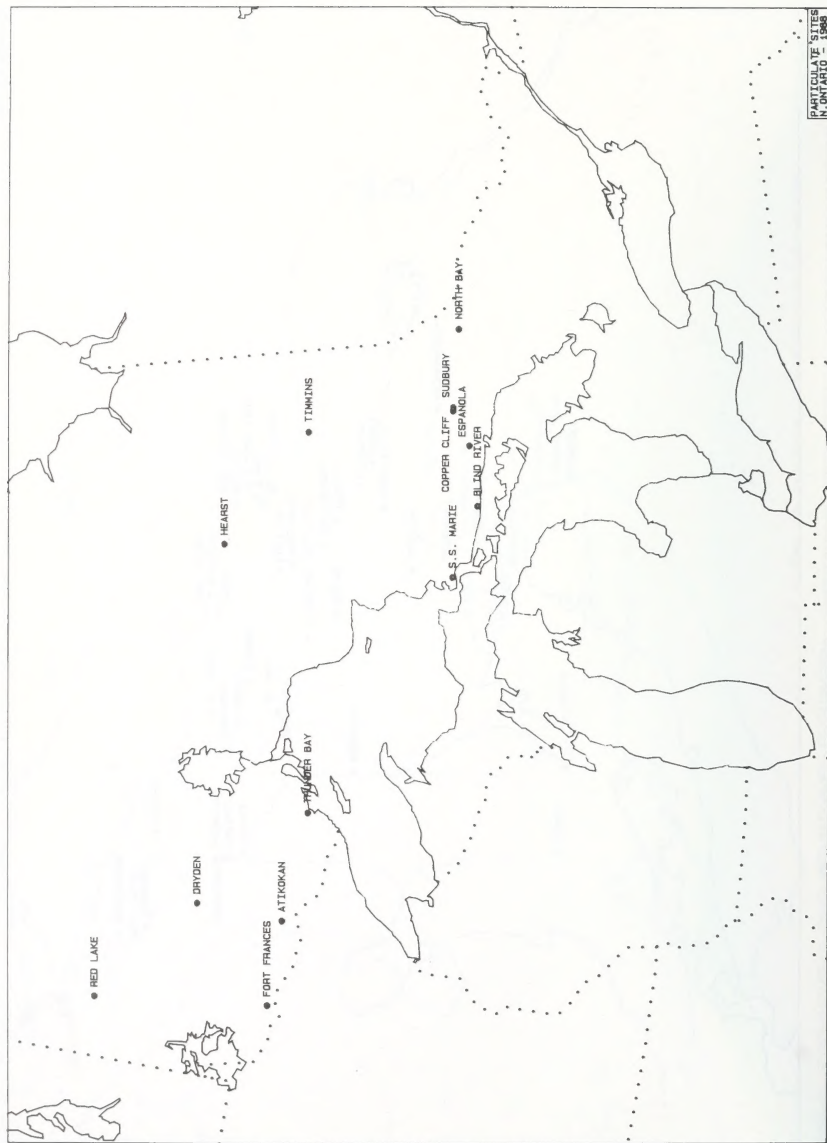




* number in brackets indicates multiple sites.

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MAP 5 LOCATIONS OF DAILY MONITORING - N. ONTARIO



PARTICULAR SITES
IN N. ONTARIO - 1985

